SPORTING GOODS NUMBER.

CIRCULATES EVERYWHERE IN CANADA
Also in Great Britain, United States, West Indies, South Africa and Australia.

HARDWARE AND METAL

A Weekly Newspaper devoted to the Hardware, Metal, Heating and Plumbing Trades in Canada.

VOL. XVII. MONTREAL AND TORONTO, APRIL 15, 1905 NO. 15

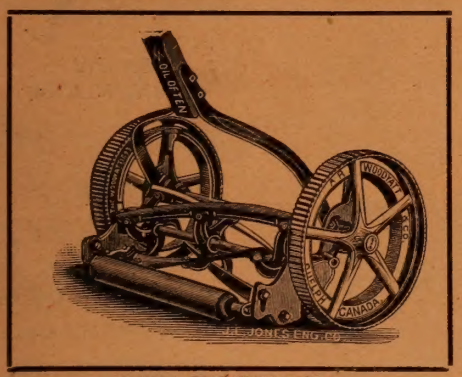
POCKET KNIVES
H. BOKER & COS
IMPROVED
TREE BRAND
TRADE MARK
RAZORS CUTLERY SCISSORS

FOR SALE BY LEADING WHOLESALE HARDWARE HOUSES.

FOR CORRUGATING

"Redcliffe" Sheets are soft, flat, uniform weight and well galvanized.

JOHN LYSAGHT, Limited, Makers, BRISTOL, ENG
A. C. LESLIE & CO., MONTREAL Managers Canadian Branch.



"THE WOODYATT."

THE ADVERTISEMENTS

in a vast number of daily and weekly newspapers throughout Canada are about

"The Woodyatt" Lawn Mower

What other mower could be advertised so extensively? 95 per cent. of the jobbers sell "The Woodyatt." It is the best-known, best-liked, most-reliable mower sold. It is soundly and broadly guaranteed. The repairs are quickly obtained and at minimum expense. Have you provided yourself with a stock of "Woodyatts"? Get them from your jobber.

Taylor-Forbes Company

Montreal Branch:
9 De Bresoles St.

The Largest Manufacturers of Hardware in Canada.

LIMITED.
GUELPH, CANADA

Classified List of Advertisements on Page 71.

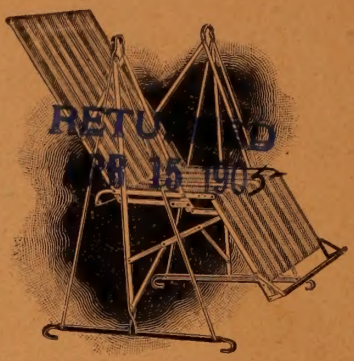
LAWN GOODS

RETURNED APR 15 1905



SPIDER LAWN MOWER

HOSE



LAWN AND VERANDAH CHAIRS

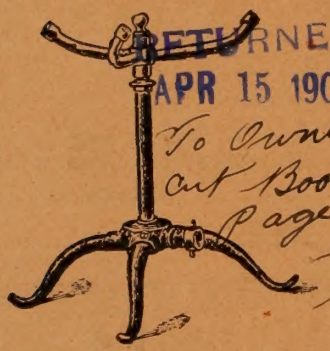
HOSE

RETURNED APR 15 1905



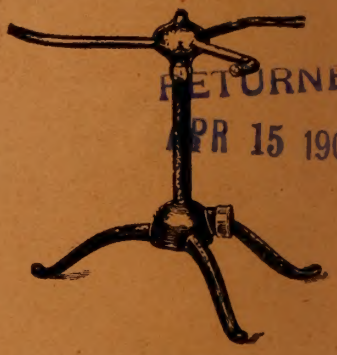
MATCHLESS LAWN MOWER

RETURNED APR 15 1905 To Owner out Book 33 Page 59



LAWN SPRINKLERS

RETURNED APR 15 1905

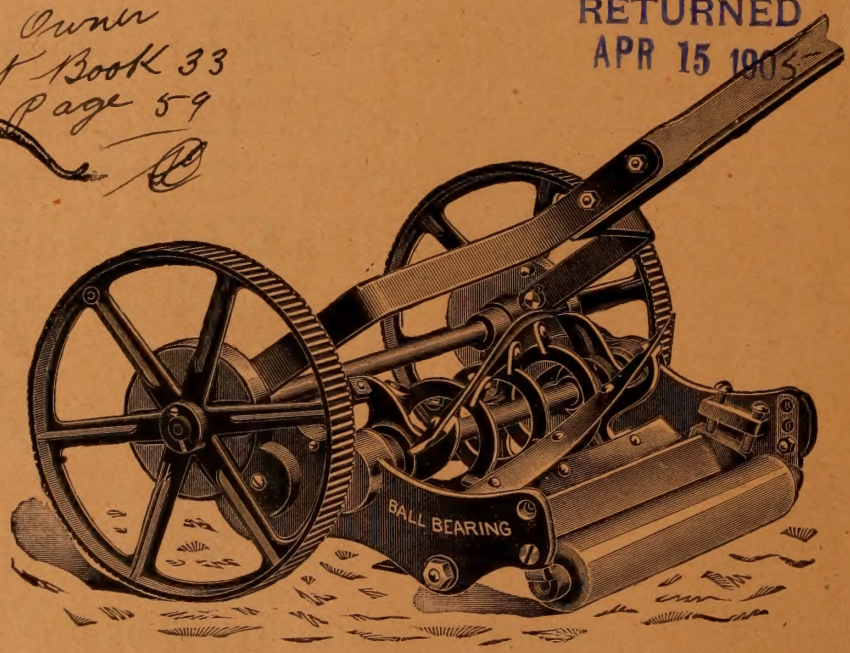


LAWN SPRINKLERS

NEW LAWN NEEDS

LAWN
VASES,
SEATS,
TRIMMERS,
ROLLERS,
ETC.

RETURNED APR 15 1905



BALL-BEARING LAWN MOWER

NEW GARDEN HELPS

WHEELBARROWS,
TREE PRUNERS,
GARDEN FORKS,
RAKES, ETC.

WRITE FOR PRICES

RICE LEWIS & SON

LIMITED

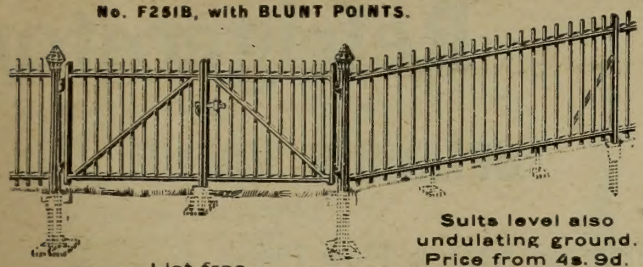
TORONTO.

BAYLISS, JONES & BAYLISS, LD.

MANUFACTURERS OF
PATENT SELF-ADJUSTING, ROUND-BAR, UNCLIMBABLE

RAILING.

No. F2518, with BLUNT POINTS.

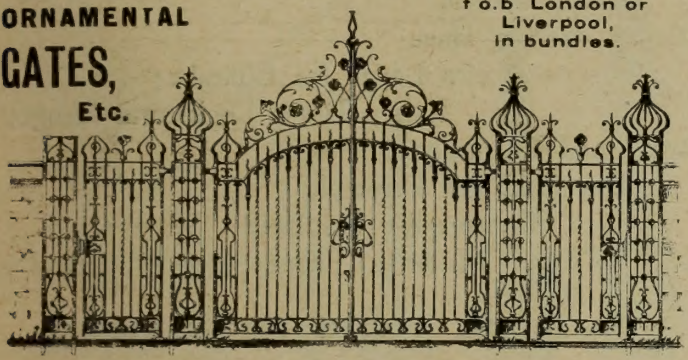


Suits level also undulating ground. Price from 4s. 9d. per lineal yard, f.o.b London or Liverpool, in bundles.

PLAIN AND ORNAMENTAL

List free.

GATES, Etc.



Also Manufacturers of IRON AND WIRE FENCING, BOLTS, PATENT NUTS, TIE-BARS, Etc. Catalogue Free.

VICTORIA WORKS:— WOLVERHAMPTON, (ENGLAND).

LONDON OFFICES AND SHOWROOMS: 139 and 141 CANNON ST., E C.

Don't forget to get our prices for

SPRING GOODS

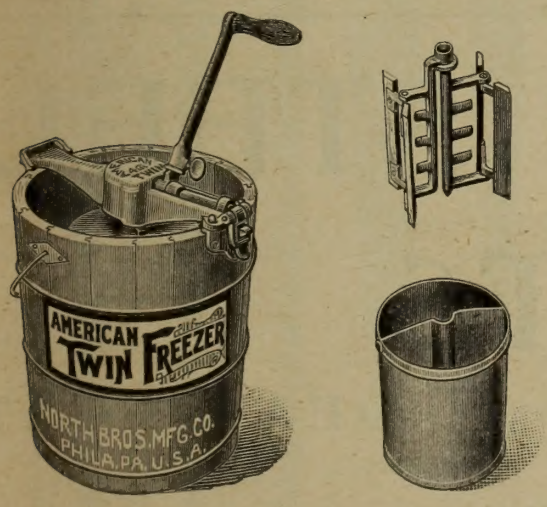
BEFORE BUYING

Lawn Mowers, Lawn Rakes, Rubber Hose, Harvest Tools, Shovels and Spades, Paris Green, Green Wire Cloth, Churns, Wheelbarrows. . . .

Builders' and Lumbermen's Supplies Always on Hand

THOS. BIRKETT & SON CO., LIMITED

OTTAWA, ONT.



"LIGHTNING" "GEM" "BLIZZARD"



THE BEST ICE CREAM FREEZERS in practical use, because convenient, compact in size, use smallest amount of ice and salt, run easily, freeze quickly, produce smoothly frozen creams or desserts with little bother and less work.

THE ONLY FREEZERS MADE having Cedar Pails with Electric Welded Wire Hoops Cans of Heavy Tin with Drawn Steel Bottoms, **Automatic** Tin Scrapers.

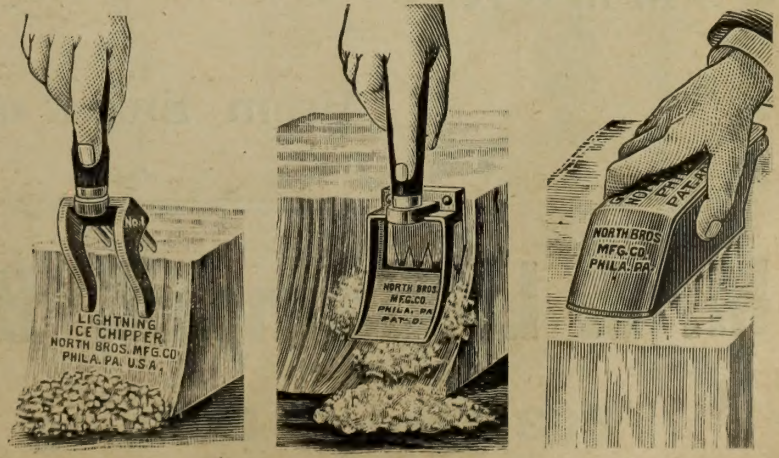
"AMERICAN" (2 in 1) TWIN FREEZERS

Freezes two flavors of Ice Cream or an Ice or Sherbet and Ice Cream at one and same time, in one Freezer Something entirely new. Never done before.

ASK YOUR JOBBER FOR THEM.
SEND FOR NEW FREEZER BOOK.

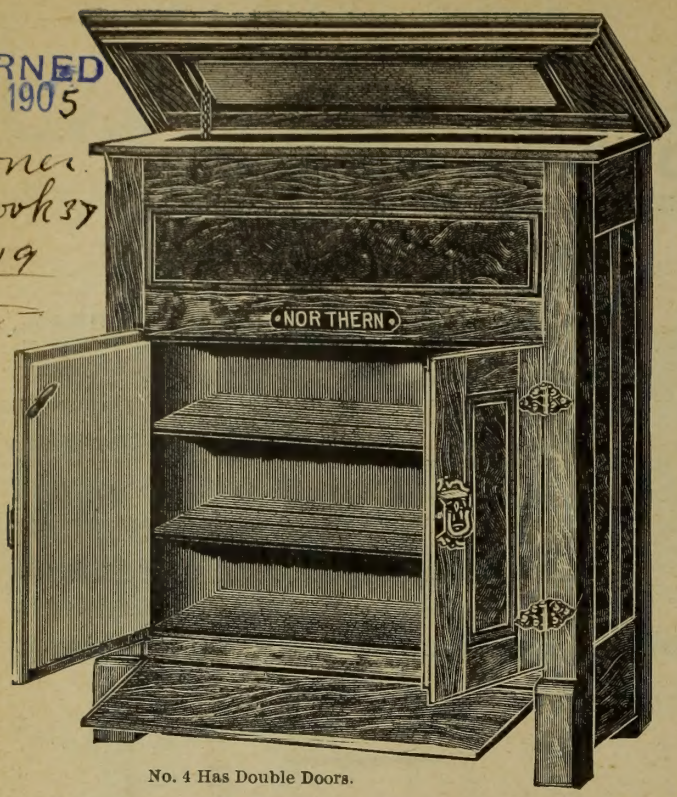
NORTH BROS. MFG. CO.

PHILADELPHIA, PA.



"LIGHTNING" "CROWN" "CEM"
ICE CHIPPERS ICE SHAVE

RETURNED
APR 29 1905



No. 4 Has Double Doors.

The "Northern" Refrigerator

SPLENDID VALUE

Hardwood Antique Flow Finish
Beaded Panels
Swing Base
Extra Large Ice Chamber
Fancy Brass Locks and Hinges
Zinc Lined Throughout
Dry Cold Air Principle
Thoroughly Insulated
Made in Three Sizes—1, 2, and 4

WRITE FOR PRICES.

The Thos. Davidson M'f'g Co., Limited
MONTREAL.

IRON AND STEEL SHEETS

COMMON DEAD FLAT

From Stock or Import

M. & L. Samuel, Benjamin & Co.

503 Temple Building - TORONTO.

English House—16 Philpot Lane, LONDON, ENGLAND

HIGHEST QUALITY

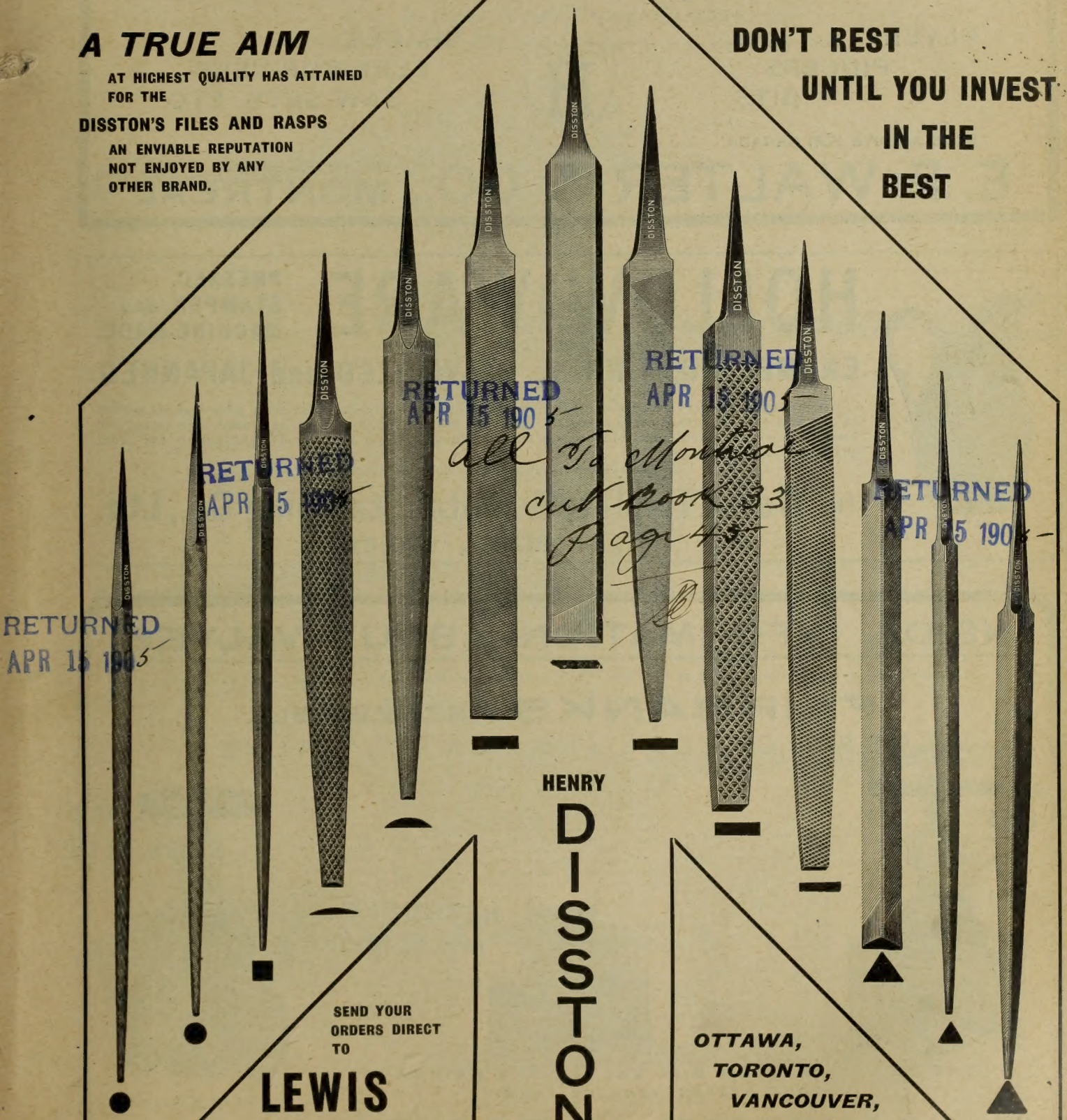
A TRUE AIM

AT HIGHEST QUALITY HAS ATTAINED FOR THE

DISSTON'S FILES AND RASPS

AN ENVIABLE REPUTATION NOT ENJOYED BY ANY OTHER BRAND.

DON'T REST UNTIL YOU INVEST IN THE BEST



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all To Montreal
cut Book 33
Page 45

SEND YOUR ORDERS DIRECT TO

LEWIS BROS. & CO.

Wholesale Agents,
MONTREAL.

HENRY

DISSTON

& SONS,
PHILADELPHIA,
U.S.A.

OTTAWA,
TORONTO,
VANCOUVER,
CALGARY.

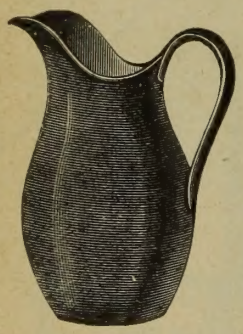
HILGER'S HARDWARE

PLYERS
PINCERS
BITS

BRACES
SCREWDRIVERS
SAW SETS, ETC.

SOLE AGENTS FOR CANADA

E. F. WALTER & CO., 166 and 168 McGILL STREET MONTREAL



HOLLOW-WARE

PRESSED, STAMPED, and MACHINE-MADE.

ENAMELLED, TINNED, GALVANIZED and JAPANNED

We manufacture every description of Hollow-ware and we guarantee that every piece is made wholly on our own premises. Our average weekly capacity, is over 700,000 pieces, of Tinned, Galvanized and Enamelled ware. Our Enamelled ware is of superior durability and finish, and is guaranteed free from any poisonous substances.

Let us have your name for our illustrated lists

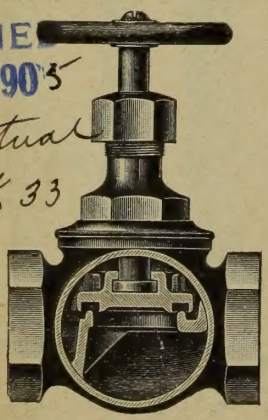
The Welsh Tinplate & Metal Stamping Co., Ltd.

LLANELLY, WALES

INSIDE INFORMATION ABOUT VALVES.

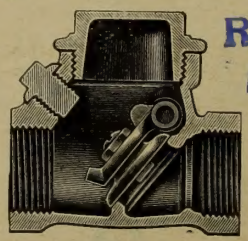
The outside appearance of all valves is more or less alike. The inner construction, however, is the vital part. Here we illustrate

FAIRBANKS' RENEWABLE GLOBE, CHECK and GATE VALVES.



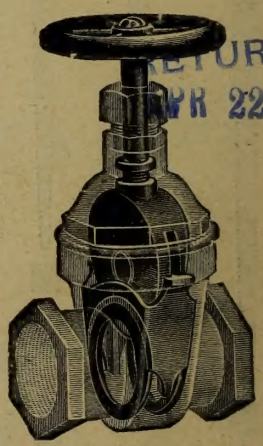
This cut shows our Renewable Asbestos Disc Globe Valve closed. As you see, the Disc is a brass holder, the ends of which are turned over the Vulcanized Asbestos Ring and it is held on the end of spindle without the use of nuts, springs or screws. The disc can be changed by removing the bonnet, slipping disc from end of spindle; substitute a new disc and then replace bonnet—all without the loss of time. Remember the Asbestos Disc can't flake or break.

Our Straightway Swinging Check Valves, with patent rotating disc, work freely and never stick on the seat. They have full area equal to pipe connections and straight way — a very desirable feature. The seat is easily reground without disconnecting the valve from the pipe.



This shows our Renewable Double Seat Gate Valve. The seat rings will neither crack, flake nor chip off, nor adhere to the gate or wedge. They do not expand or contract from heat or cold.

The gate is double-faced, wedge-shaped casting, with side grooves by means of which it slides on guides in the valve. Being double-seated these valves can be used with the pressure applied at either end.



THE NEXT TIME YOU BUY VALVES TRY FAIRBANKS'

YOUR DEALER HANDLES THEM.

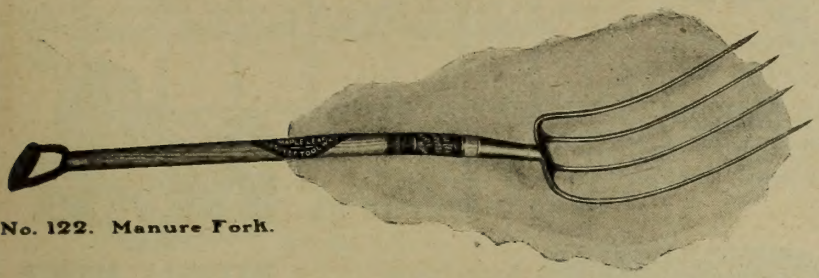
THE CANADIAN FAIRBANKS CO. LIMITED

Montreal, Toronto, Vancouver, Winnipeg.

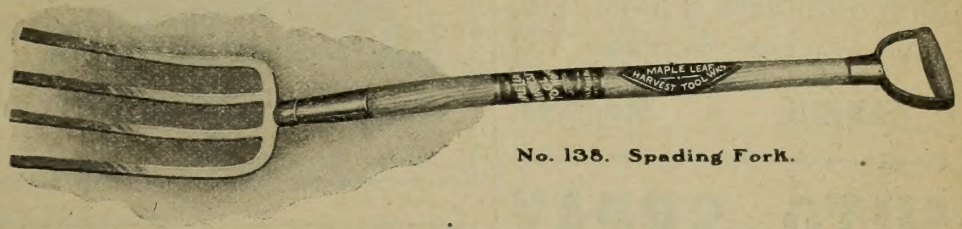
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Have You Seen Them ?

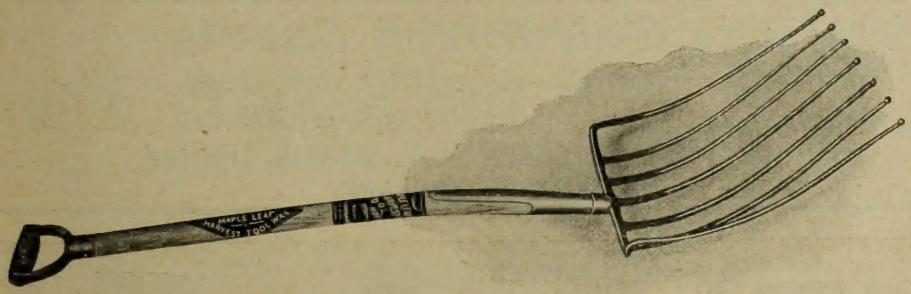
For Beauty, Finish and Quality, the "Maple Leaf" Harvest Tools are unexcelled.



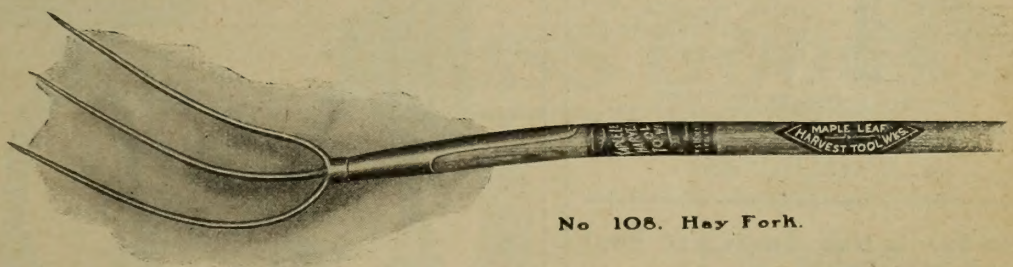
No. 122. Manure Fork.



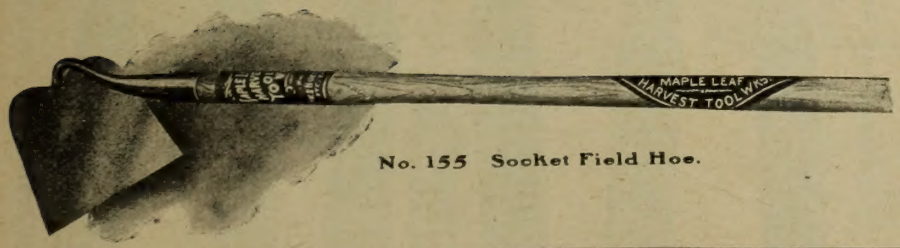
No. 138. Spading Fork.



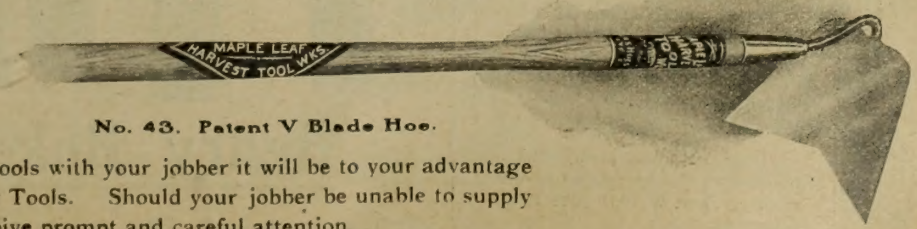
No. 243. Beet Fork.



No 108. Hay Fork.



No. 155 Socket Field Hoe.

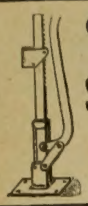


No. 43. Patent V Blade Hoe.

TO THE HARDWARE TRADE—

When placing your order for harvest tools with your jobber it will be to your advantage to **specify** for the **"Maple Leaf"** Harvest Tools. Should your jobber be unable to supply them, send your order to us and it will receive prompt and careful attention.

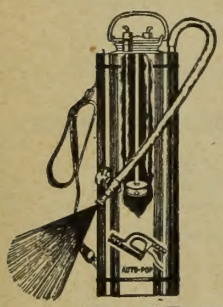
The Maple Leaf Harvest Tool Co., Limited, Tillsonburg, Ont.



COVERT MFG. CO.
Troy, N.Y.
Steel Carriage and Wagon Jacks
Harness Snaps, Chain, Rope and Web Goods, etc.
SOLD BY ALL LEADING JOBBERS.

Buy
"Windmill Best"
Galvanized Sheets
Made by
John Summers & Sons, Ltd.
STALYBRIDGE, ENG.
Agent
F. HANKIN, - Montreal

AUTO-SPRAY
Best Compressed-Air Hand Sprayer made



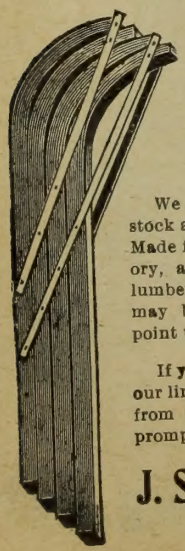
An absolute necessity for every Farm and Garden.

Will pay its cost in one season for Potatoes alone.

Saves time, labor and material. A boy can do the work. Will run continuously for 6 to 9 minutes.

Liberal Terms to the Trade
CAVERS BROS. - Galt, Ont.
Sole agents for the Dominion.

The Sarnia Hub, Spoke and Bent Goods Mfg. Co.,
SARNIA, ONTARIO



We are prepared to fill any orders for

HEAVY WAGON, SLEIGH, BUGGY, —and— CUTTER STOCK.

We make a specialty of heavy stock and can fill orders promptly. Made from the best of oak and hickory, as we carry a large stock of lumber and can make any sizes that may be required. We make it a point to fill orders promptly.

If you are in need of anything in our line we will be pleased to hear from you and we will give it our prompt attention.

J. S. Loughead & Son
SARNIA, ONT.

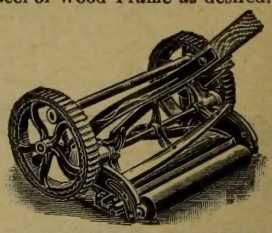


Steel Frame Support.

DAVID MAXWELL & SONS
ST. MARYS, ONT., CANADA.

"Maxwell Favorite Churn." PATENTED FEATURES: Improved Steel Stand, Roller Bearings, and Foot and Hand Lever Drive, and Detachable Driving Link. Improved for season of 1904. Steel or Wood Frame as desired.

Lawn Mowers. High and Low Wheels, from 12 in. to 20 in. widths. Cold Rolled Steel Shafting, Crucible Steel Knives and Cutting Plate.



If your Wholesale House does not offer you these articles
SEND DIRECT TO US.

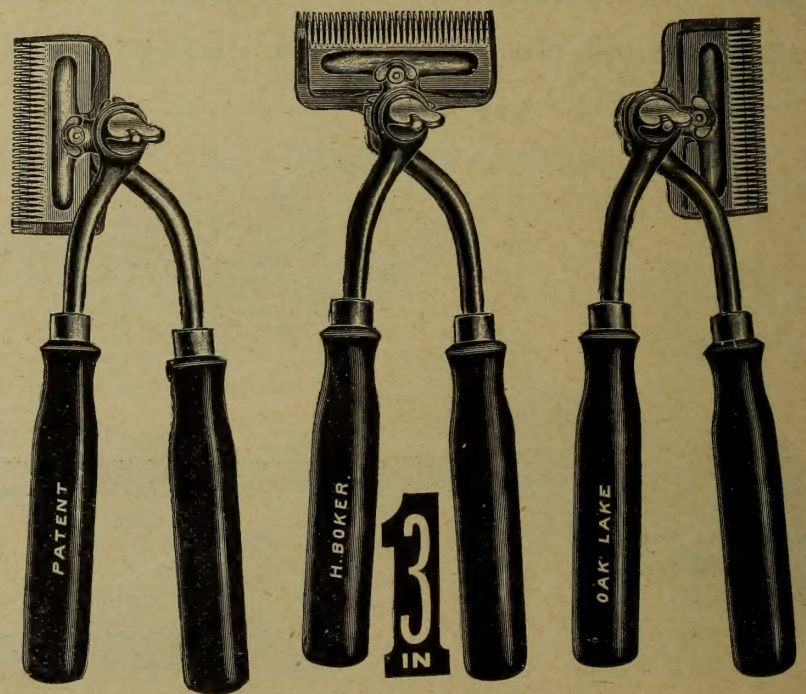


MAXWELL MOWER
8-in. Low Wheel.

Wheelbarrows. In Four Different Sizes.

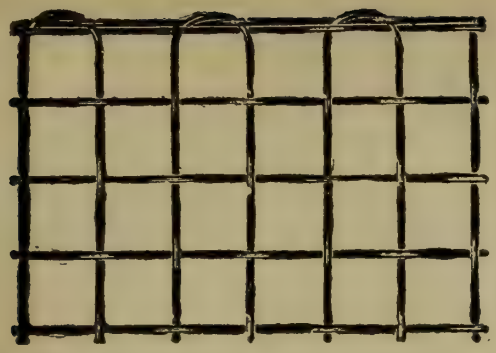
J.C.M.
Galvanized Sheets for Corrugating are best. Submit your enquiries by mail or cable to
RD. JOHNSON, CLAPHAM & MORRIS, Limited
MANCHESTER, ENGLAND,

The Finest One-Man Horse Clipper Made.



One Man Can Clip a Horse Without Any Other Help.

Henry Boker's Oaklake
Patented Reversible Horse Clipper
FOR SALE BY LEADING WHOLESALE HOUSES



WIRE CLOTH

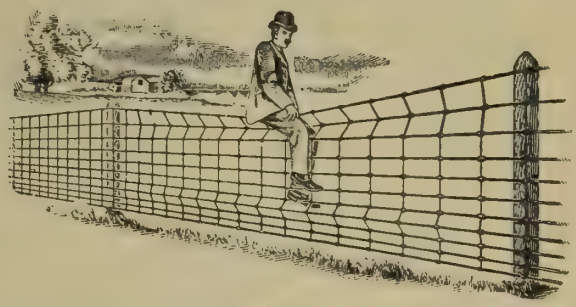
FOR

Sand Screens,
Coal Screens,
Mining Screens,
Cinder Sifters,
Evaporators,
Grain and Seed Cleaning Machinery,
Milk Strainers,
Calvanized and Re-galvanized Cloth,
Wire Lathing,
Window Protection,
Malt Kiln Floors,
Woolen Mills,
Smoke Stacks,
And for all purposes.

THE B. GREENING WIRE CO., LIMITED

Hamilton, Ont. **Montreal, Que.**

Dillon Hinge-Stay —Fence—



Don't let YOUR farmer customer go to the OTHER Hardware for his fencing because you have none. If so, he is likely to get his Stove, Harvest Tools and other goods there, too.

Put in a small attractive stock of our 1905 DILLON fencing, keep it where it can be seen and it will attract farm custom. Good margin in it for you, too.

OWEN SOUND WIRE FENCE CO., LIMITED,

Owen Sound, Ont.

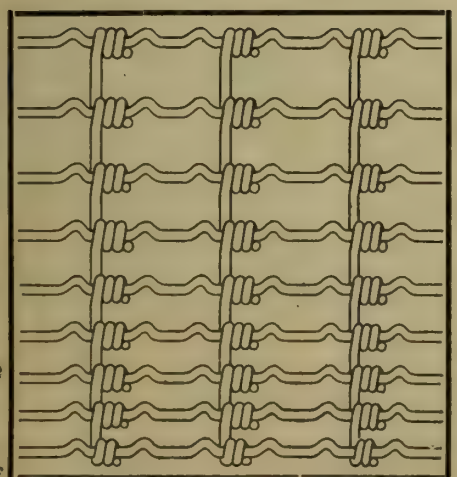
MESSRS. CAVERHILL, LEARMONT & CO.,

(Eastern and Western Agents,) **Montreal and Winnipeg.**

Galvanized Steel Woven Wire Fence

HIGH CARBON

The proof of the pudding is, that more of our Fences are in use than all other makes of Wire Fences Combined



American Field and Hog Fence

We Continue to Manufacture the Celebrated

ELLWOOD DIAMOND MESH ORNAMENTAL FENCES

We call your special attention to our Extra Heavy Fence, all Horizontal Wires No. 9 Gauge. Weighs more per rod, has greater tensile strength than any other Fence on the market

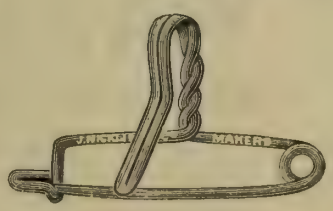
If your Dealers do not handle our Fences write to us

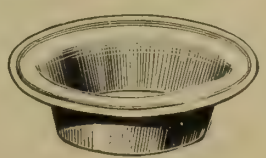
THE CANADIAN STEEL AND WIRE CO., LIMITED

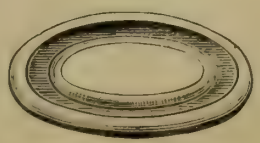
WINNIPEG, MAN. **HAMILTON, ONT.**

About Brass Goods

REGISTERED SAJONIC TRADE MARK







We would like you to know more about our lines of

CURTAIN RINGS
CURTAIN HOOKS
MILL BAND FASTENERS
SAIL EYELETS
ETC., ETC.

Drop a line for list and quotations to our Canadian Agent,

F. P. ROGER, *Toronto*

J. Nicklin & Co.

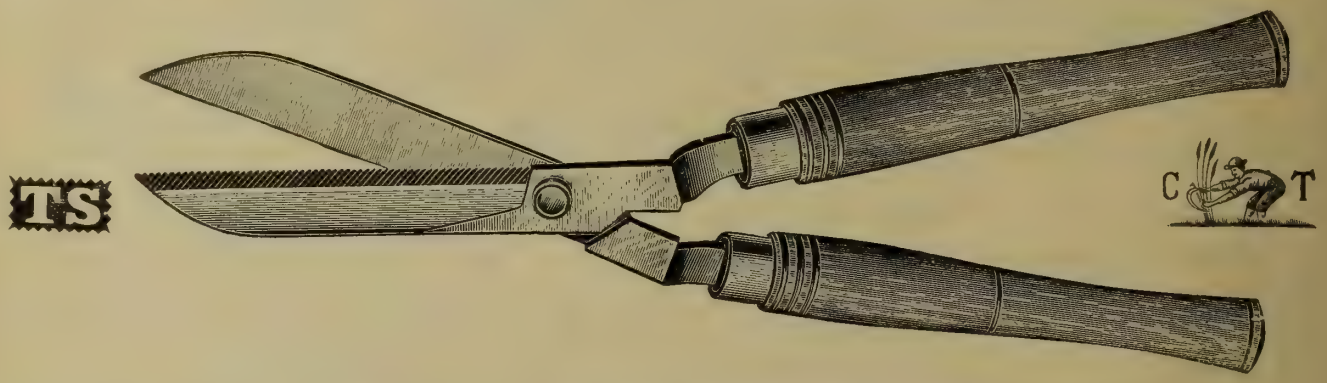
Gt. Charles St. ***BIRMINGHAM, ENG.***

THEY LOOK ALIKE

But one is CHALK and the other is CHEESE.

It is the same with GARDEN SHEARS, some are made out of ROLLED steel and may cost you a little less MONEY, but they take it out of you in REPUTATION.

OURS are made of solid Steel of a SPECIALLY selected quality and are FORGED by a new IMPROVED process of our OWN by the most COMPETENT workmen.



WARRANTED "HAND FORGED," EVERY PAIR STAMPED

Thos. Staniforth & Co., - Hackenthorpe, Sheffield, Eng.

Ask your jobber for them or write JAS. S. PARKES, 446-448 St. Paul St., Montreal, and he will tell you where to get them.

BOSS EXTERNAL GEAR



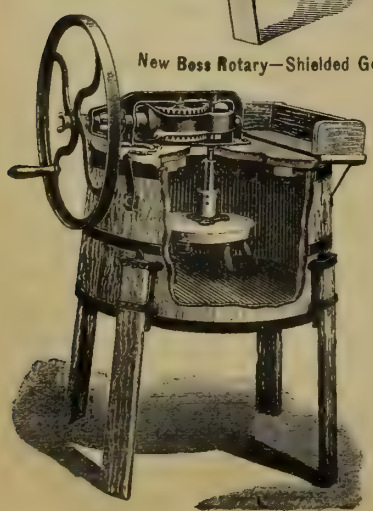
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1904 AUTOMATIC



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New Boss Rotary—Shielded Gears



They Are Not Cheap Goods

as goods of such quality would not have permitted of thriving success and present standing of our Washers, and daily capacity.

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DO YOU WANT ONE



Smith & Wesson Model, 1902, Military Target Revolver.

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of our new Sporting Goods Catalogues? Ready for mailing next week? The most artistic catalogue issued by the Canadian Hardware and Sporting Goods trade. Contains a well-selected list of guns, rifles and revolvers, and sportsmen's accessories. Also goods you will be interested in in the Fall. We would like to have your name on our mailing list. A catalogue for the asking.

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STANDARD,
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All qualities and lengths, 500 ft., 550 ft., 600 ft., 650 ft. to the pound.

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ONEIDA COMMUNITY'S WELDLESS COW TIES.

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Oneida Community Cow Ties can be had of all the leading jobbers. We invite correspondence where any difficulty is experienced in obtaining our goods.

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GALVANIZED FENCE HOOK FOR FASTENING WOODEN PICKET ON WIRE FENCES



WIRE NAILS, COILED SPRING, BARB and PLAIN FENCE WIRE, OILED and ANNEALED, CLOTHES LINE WIRE, STAPLES, etc.

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A handy kitchen utensil for scraping chocolate, slicing small fruits and vegetables. Sells well at all seasons because always useful. Made of hardwood. Blade of finely tempered steel.

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ACKNOWLEDGED THE BEST.

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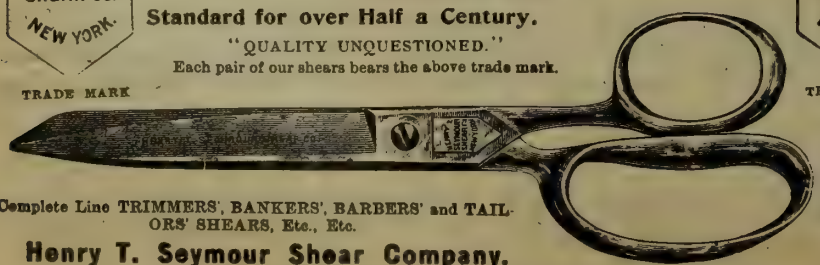
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Leading Canadian Accountants and Auditors

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LEGAL CARDS.

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Invaluable for convenience in the household.

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First-class accommodation for Commercial Men.

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John McEwen, Manager. For Rates, etc., apply Trinidad Shipping & Trading Co., 29 Broadway, New York.

1,000 White Business Envelopes, $1.00

(PRINTED TO ORDER)

This offer is to get you started. We want your trade, and we don't do cheap-looking work, either. Give us your next job, and you will be satisfied.

G. A. Woose & Son, 44 Yonge St., Toronto
Write for Catalogue of Printing.

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In this paper cost 2 cents per word first insertion, 1 cent per word subsequent insertions. Contractions count as one word, but five figures (such as $1,000) may pass as one word. Cash remittance to cover cost must in all cases accompany orders, otherwise we cannot insert the advertisement. When replies come in our care 5 cents additional must be included for forwarding same. Many large business deals have been brought about through advertisements of 20 or 30 words. Clerks can be secured, articles sold and exchanged, at small expenditure.

MacLEAN PUBLISHING CO., Limited
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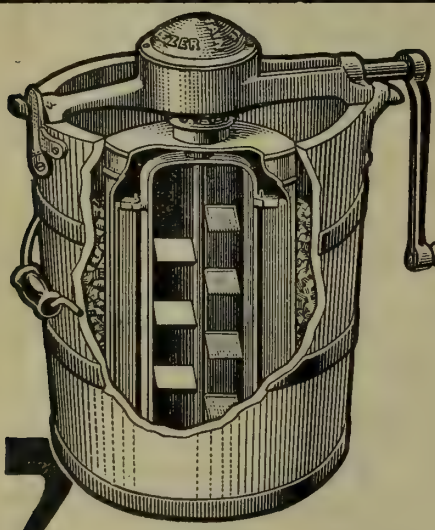
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MADE OF CRUCIBLE STEEL. OIL TEMPERED. ANTI-RUST. NICKEL PLATED.
WILL NOT BEND, BREAK OR RUST. EACH ONE TESTED AND GUARANTEED.

ERIE SPECIALTY COMPANY, ERIE, PA.



THE WHITE MOUNTAIN FREEZER

The

Ice Cream Maker Par Excellence

Three Motions inside the Can. Two Separate Dashers Produces the Greatest Quantity of Quality, Quickly. The Freezer that is Most Advertised, Best Known and Best Liked. Endorsed by and Sold by Leading Jobbers Everywhere. Catalogue for the Asking.

The McClary Manufacturing Co.,

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Binder Twine

BLUE RIBBON, 650 ft. to the lb.
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GOLDEN CROWN, 500 ft. to the lb.

Still the Favorites of both FARMERS and DEALERS.

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Nothing but Select Fibre Used.
Skilled Canadian Labor.

Our Twine is not only evenly spun, but is WELL BALLED. This is very important, prevents tangling in Twine Box Write for prices.

CONSUMERS CORDAGE CO., Limited

Mills—MONTREAL and HALIFAX. MONTREAL.

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W. A. C. Hamilton, Toronto, Ont. F. H. Andrews & Son, Quebec, Que.
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Woven Wire Fencing



MAKES MONEY FOR YOU

Your customer, the farmer, wants a fence that can be put up quickly and easily just when he wants it. Hand made fences cost too much when you figure the time it takes to build them, to say nothing of the hard work.

Why not sell "The Ideal," the best woven wire fence made? You can build up a permanent trade that will pay you as much as any line you are handling. Other hardware merchants are doing it. Why not you? The Ideal will give satisfaction to your customer and make him your friend.

Have you seen the Ideal? Let us send you a sample and catalogue showing why Ideal fence made from No. 9 hard steel wire throughout is the strongest and the best value.

Ask us about the Ideal all metal farm gate.

The McGregor-Banwell Fence Co., Limited,
WALKERVILLE, ONT.
Merrick, Anderson & Co., Winnipeg, Man.
Sole agents for Man. and N.W.T.

THE LEADERS



STYLE "A"



STYLE "E"

Style "A" with Double Reversible Steel Bow Lever, Patented Cream Breakers.

Style "E" with Hand and Foot combination drive and spring attachment, producing an easy and elastic motion.

The Pittman is quickly detachable from churn.

Both styles are fitted with our improved Steel Ball Bearings and mounted on Rigid Angle Steel Stands.

THE DOWSWELL MANUFACTURING CO., LIMITED
HAMILTON, ONT.





Watering Pots

Japanned and Galvanized
Strong and Durable
Removable Roses

Water Coolers

Nickel-Plated Faucets
Beautifully Decorated

Each cooler packed separately in a strong box to ensure against damage in transit.



Is your stock complete with these seasonable goods?

WE CAN SHIP PROMPTLY

KEMP MANUFACTURING CO., TORONTO, ONT.

THE KEMP MFG. AND METAL CO., LIMITED,
McDermot Ave. East, Winnipeg, Man.

THE KEMP MFG. CO. OF MONTREAL,
58 McGill St., Montreal, Que.

AIDS IN SELLING SPORTING GOODS

AN examination of the stock of the average hardware dealer of the better class will show a larger percentage of such firms than ever before carrying in stock fire arms, ammunition, fishing tackle, and sporting goods of a more general character.

The reason for this is obvious. The American public is, each year, spending more time in outdoor life and more money in equipments for the enjoying of it, and it is to-day possible for the retailer to submit to his customers rods, reels, and fire arms made on the interchangeable system, by American machinery, at prices which, only a few years ago, would have seemed absurdly low.

There is a whole lot of difference, however, in the rapidity with which equally good assortments of sporting goods will move in the establishments of different concerns.

The hardware dealer to whom a gun is a gun, and a rifle a rifle, irrespective of the service which the prospective customer requires of it, is going to be mightily handicapped, when it comes to making a sale, in competition with a competitor who can handle a shooting iron himself, and is in a position to speak as an authority when it comes to recommending any particular line of goods which he is anxious to shove.

The hardware dealer who can tell a customer why the 22 rim fire rifle, which he thinks of purchasing, isn't as well adapted for that customer's particular purpose as a larger calibre weapon, and who knows when to recommend a single shot in preference to a repeater, or vice versa, is the man who is going to be regarded as a source of information on such matters.

AMBITIOUS SALESMEN EASILY POSTED.

It doesn't require more than ordinary intelligence for an ambitious salesman to post himself on such points at the present day.

Fire arms manufacturers now make their catalogues such encyclopedias of information regarding arms and ammunition that a little common sense and some actual shooting experience with the arms themselves, will bring to the ambitious salesman an amount of information whose value is, reckoned by its value, away out of proportion to the amount of time and trouble involved in acquiring it.

It's just the same way with shot guns, fishing tackle, and anything else of a similar nature.

The man who goes into a hardware store with an idea on one point only, and that is as to how much he is willing to spend for a rifle, shot gun, reel or rod, and who goes out again with the article neatly wrapped up, with a vague idea as to what he can, or can't, do with his purchase, may go back to that store again when he desires something else.

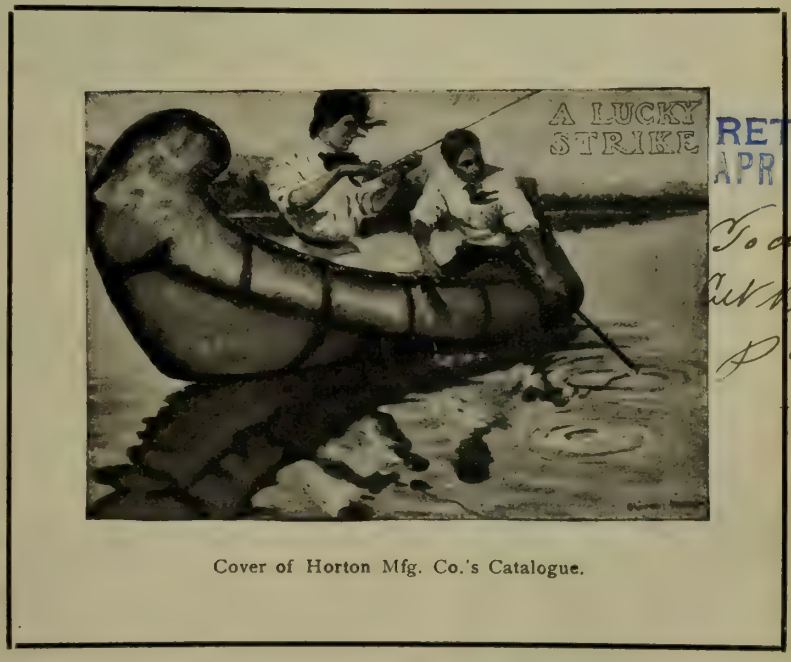
If, on the other hand, Mr. Purchaser is catechised in a pleasant and friendly way as to what sort of use he proposes to get from his prospective purchase, has a little friendly information tendered him in regard to the local prospects for the game or fish which he is after, and is then put up against an assortment of articles adapted to his particular use, and their good points and disadvantages frankly explained to him, he will feel that an interest is being taken in him, that the salesman has given him some advice worth having, and if he is gently led to perceive just how much better adapted to his particular purpose are the goods recommended to him than others which he might in his ignorance have been inclined to purchase, he will have a friendly feeling for that establishment and make a point of patronizing it in the future.

Furthermore, a salesman who is up in practical knowledge is in a position to shove that particular line of goods in the sale of which his house is most interested, and he can do it in a most convincing manner.

A WRONG WAY TO PERSUADE A CUSTOMER.

A salesman who hasn't taken the trouble to study up the subject of the sporting goods which he is supposed to handle, and tries to influence a sale in favor of some particular line by damning his customer's possible choice by the "they're no good" method, doesn't make half as good an impression and isn't one-tenth as convincing as the wide-awake, well-informed clerk who starts out by admitting the good points of an article that he doesn't want to sell, and then showing that the goods which he is anxious to dispose of possess even superior advantages.

Take fishing tackle, for example. Lhere are more rods, reels and artificial baits on the market to-day than any one dealer can afford to carry in stock, but the retailer who knows something about fishing, and, futhermore, makes it a point to keep himself informed in regard to conditions surrounding his own territory, then makes up his mind as to which particular lines he is going to carry, and carries assortments of those lines which will cover the practical



Cover of Horton Mfg. Co.'s Catalogue.

RETURNE
APR 15 190
To Mr Wh
Cat Book 33
Page 4

necessities of his customers, will make a go of it.

Anybody, even the boy who sweeps out the store, can take, out of a large assortment of artificial baits, that which



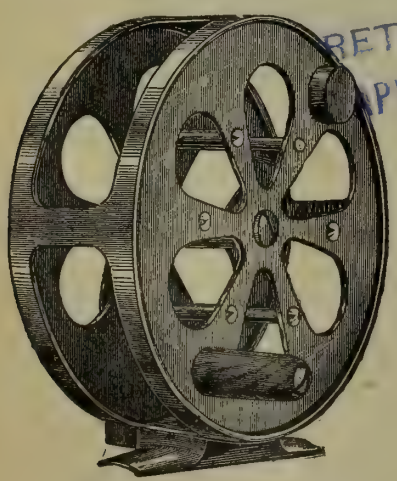
Floating Luminous Meadow Frog.

his customer calls for. That's letting your customer run your business for you.

On the other hand, a salesman who has a knowledge not only of fishing tackle, but of fishing, is in a position to equip a customer in a satisfactory and practical manner, and do so from a moderate-sized stock of goods.

SOME EASY-SELLING ACCESSORIES.

A local rifle club will help the sale of arms and ammunition. A gun club will keep things stirred up in shot guns, and also help the ammunition line.

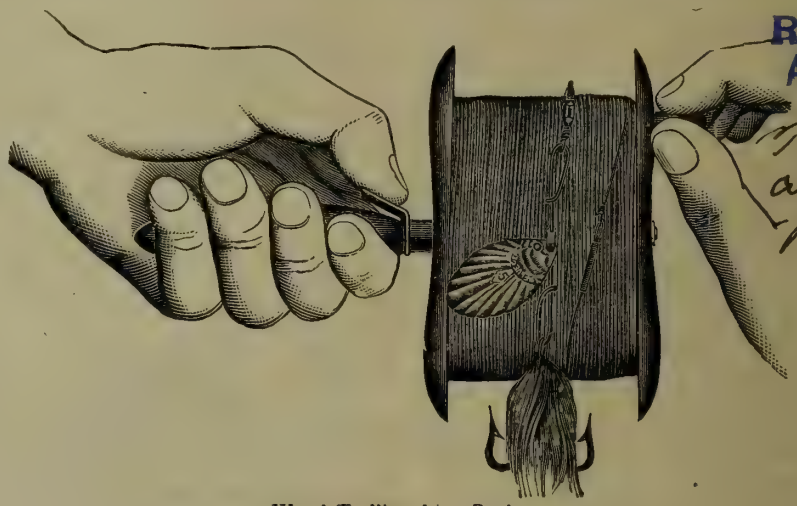


Expert Fishing Reels.

A revolver and pistol club, meeting at intervals, on the premises of an up-to-date hardware dealer, and shooting ammunition sold by him, will be a mighty good advertisement during the Winter months, when little else in the sporting goods line can be doing.

A pistol or revolver range, simply equipped at moderate expense, a membership in a local rifle or gun club, a knowledge of gun laws in general, and shooting and fishing seasons in particular, together with a little card index constituting a bureau of information regarding likely shooting and fishing territory of a neighborhood, will all be found extremely valuable assets in a sporting goods department.

A man who is a fisherman is in a position to show a customer that it is better to spend a little more money on a reel that runs freely, and thereby increasing his chances of coming home with a decent-sized catch, than to save a few cents and go away with a reel that runs so hard as to require a sinker heavy enough to scare all the game fish in the neighborhood when it goes "ker-plunk" into the drink.



Wood Trolling Line Reels.

USE JUDGMENT IN SELLING.

When a small boy goes into a store, it isn't always a wise policy or a good business proposition to sell him a large-calibre centre-fire rifle with which to shoot crows and squirrels, just because the small boy asks for it and has the price. The chances are the small boy would be apt to make more or less of a nuisance of himself until his first instalment of ammunition was exhausted, and then wait quite a while until he was in a financial condition to negotiate a second supply.

On the other hand, if the youngster were told that his ammunition would cost him a whole lot of money every time he shot, would make hash of whatever small game he hit with it, and, incidently, probably do a whole lot of damage at long range, and then switched on to the merits of a 22-rim-fire light-weight rifle, he would be a better-pleased customer in the long run, a more frequent purchaser of ammunition, and the small boy's neighbors wouldn't be quite so dead set against the spread of rifle shooting in their neighborhood.

Perhaps some one thinks that this illustration is overdrawn. It isn't. The writer has a vivid recollection of seeing a small boy walk out of a hardware store one day with a 38-calibre repeating rifle, which had been handed him by an indifferent clerk in exchange for the money, and, on being questioned, the youngster furnished the information that he was going to use that deer rifle for the purpose of exterminating the chipmunks of his neighborhood, and, incidently, use it for target purposes, and a vivid reminiscence is still retained of an afternoon's walk in the fields being rudely disturbed by the "ping" of 32-40 bullets, which an investigation proved a couple of youthful innocents were utilizing for the destruction of sparrows who frequented the bushes around some of the stone walls.

CULTIVATE THE JUVENILE TRADE.

Speaking of boys, the juvenile trade is certainly well worth an effort to secure.

Light-weight rifles and shot guns, particularly adapted to young America's needs as well as his finances, are now so plentiful, so well made and so accurate,

WIRE NAILS
TACKS
WIRE

Prompt Shipment

The ONTARIO TACK CO.
Limited.
HAMILTON, ONT.

that the young sportsman is not debarred, by the cost of an armory, from becoming a shooter, as was his father and grandfather, and the amount of ammunition of which an energetic youngster can get rid in a season is something well worth selling.

And, although extremely moderate in price, these goods carry a good profit for the retailer.

Then, too, the wooden spool, the chalk line, and the fishing pole cut in the woods by the youthful Walton, which was once considered the characteristic equipment of a country boy, have given place to silk lines well made, rods and free-running reels, which certainly add to his happiness and convenience, even if they don't bring in any more fish.

These are all now within the means of the average youngster who to-day can equip himself with tackle that was once far beyond the means of his school-boy allowance.

A few targets bearing the dealer's name, prizes for the heaviest game fish secured on his tackle, a business card giving a summary of the game laws, and a little intelligent co-operation of the youngsters, to help them choose their outfits wisely, would go a long way towards making friends of the coming generation of sportsmen and getting a mortgage on their future trade for your establishment.

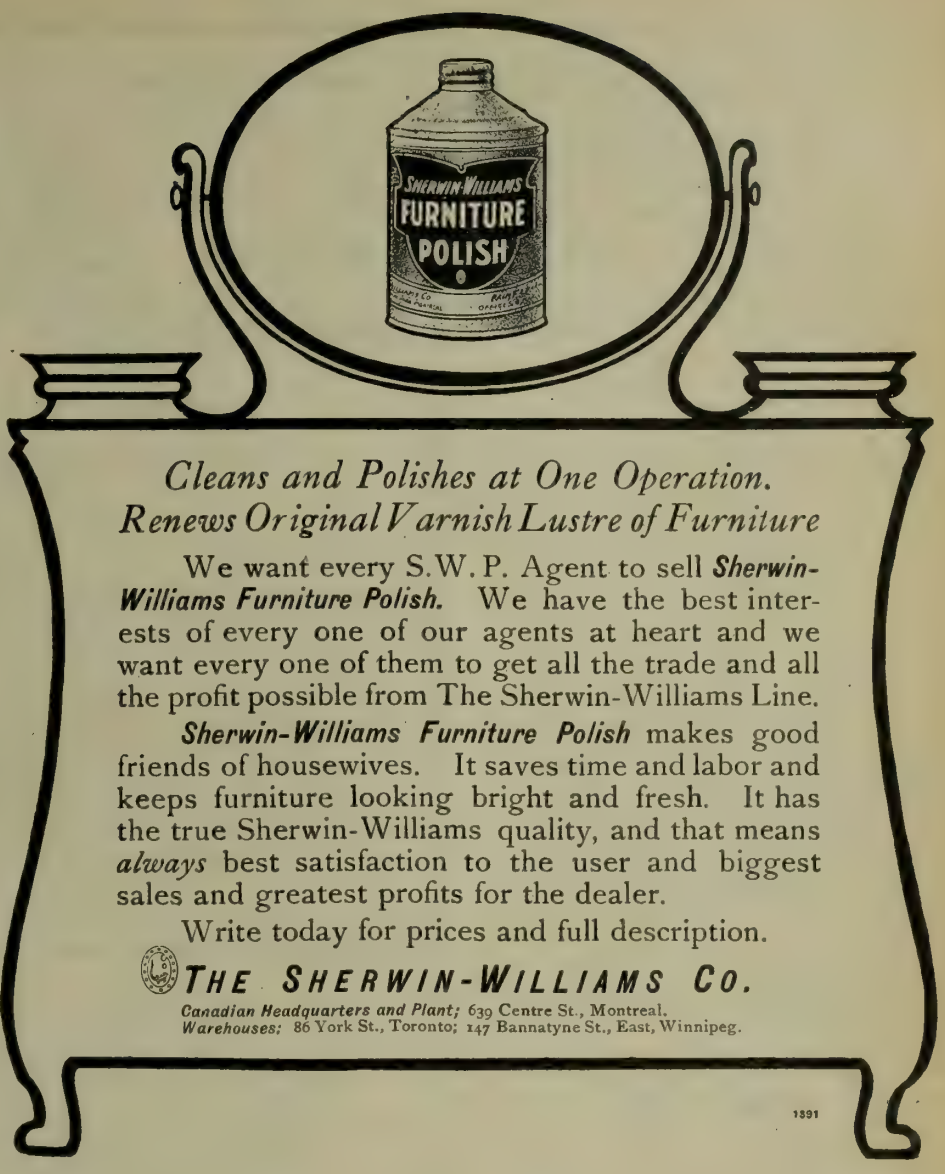
EDUCATE THE PARENTS.

With many parents there is still an unreasonable prejudice against youngsters owning fire arms. Combat this at every possible opportunity by showing them that the boy who injures himself or others is the boy that doesn't understand shooting irons, and that the boy who does understand them and is accustomed to their use, is a safer proposition both to himself and others.

The love of fire arms is deeply implanted in the hearts of nine youngsters out of ten, and somewhere, somehow, and sometime during his career, every boy is going to handle them and do some shooting, either at game or at a mark.

And the youngster who steals away and does his share of powder burning in secret and without the knowledge or sanction of his parents, is much more liable to injure either himself or others than the boy who has his parents' permission to own a gun or rifle, and can boldly take it home and clean and use it where he will have the benefit of his father's help and advice in the use and care of his property.

Furthermore, an argument which will probably be even more effective with fond and deluded parents who want to bring their boys up in cotton-wool, is that the expert shot must be an individual of steady nerve, and that the young fellow who takes pride in his marksmanship is not going to endanger it by the premature use of liquor and cigarettes, and that the boy honestly and thoroughly tired by a tramp through the fields, gun on arm, will be too tired when night comes to hang out in the billiard parlor or at the corner saloon.—Hardware Dealers' Magazine.



PFLEUGER'S LUMINOUS MEADOW FROG.

The Enterprise Manufacturing Co., Akron, Ohio, manufacture artificial lures known as Pfleuger's Luminous Baits. The Luminous Floating Meadow Frog, made of satin cork and pure rubber, is considered one of the most deadly of the whole line, and is especially excellent for casting. It possesses the characteristics of diving after a fashion so peculiarly froglike, and then returns to the surface in such a highly-probable manner that the bass and pickerel are utterly fooled by its super-deceptive tactics. They come in threes, sewn on a bronze-printed card, and packed two cards in a fancy box.

THEIR CANADIAN AGENT.

In reference to a written description of a lock catalogue, which appeared on page 173 of the special number of Hardware and Metal, published on March 25, we wish to state that Mr. J. A. Henderson of Montreal is the Canadian agent. Any inquiries sent to Mr. Henderson by the retail trade regarding these locks, or the catalogue, shall be immediately answered if this paper is mentioned.

RICE LEWIS' CATALOGUE.

Hardware and sporting goods dealers who have not yet received a copy of the supplementary catalogue, No. 33, issued by Messrs. Rice Lewis & Son, Toronto, should send for it at once. It is the largest book dealing with sporting goods received by Hardware and Metal this season. Do not fail to give credit to this paper when writing.

CATALOGUES AND BOOKLETS.

For the convenience of its readers HARDWARE AND METAL has opened its columns for the review of catalogues booklets or other such publications issued by manufacturers or wholesale dealers selling to the hardware, plumbing, machinery or metal trades. Retailers desiring such publications may also have inserted a note to that effect. It is requested that when any of the trade write for any booklet mentioned in these columns that they credit HARDWARE AND METAL as the source of their information.

"A Lucky Strike."

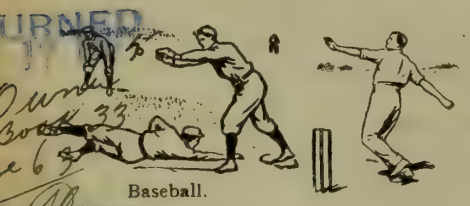
The above is the title of a beautifully colored cover page to a catalogue of fishing tackle just issued by the Horton M'f'g Co., of Bristol, Conn. All types of rods, reels, handles, floats, hooks, trolling lines, etc., are illustrated, together with instructions as to the use of fly-rods, telescopic bait-rods, and other classes of goods shown. Readers who send for the catalogue will receive a work of art well repaying them for the trouble. Mention Hardware and Metal in the letter.

Victor Sporting Goods.

A splendid catalogue has just been issued by the Fancy Goods Co., of Canada, makers of "Victor Sporting Goods and Athletic Supplies," which bear the well-known label, "Made in Canada." The catalogue is 60 pages and cover, and is by far the best yet issued by this company, whose business has grown so large that new premises have been secured at 154 and 156 Front street west, Toronto, (opposite the Union Station). The lines illustrated are too numerous to mention, but in sporting goods, small musical instruments, leather goods, games, and playing cards, cutlery, pipes, brushes and combs, and other branches of fancy goods, there are full and complete assortments. Readers of Hardware and Metal should send for this catalogue, mentioning this paper when writing.



Canada's National Game.



Baseball.

Cricket.



Exercising.



Lawn Tennis.

Claimed and Proven Superiority of

Iver Johnson Revolvers



We claim—They are safer than other revolvers.
Proof—"Hammer the Hammer."

We claim—Reliability.
Proof—The satisfaction given to more than a million users.

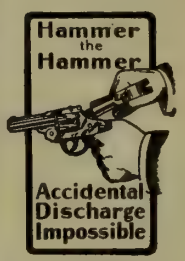
We claim—They are the best advertised.
Proof—Watch the magazines.

We claim—They are the best revolvers made
Proof—They have the largest sale of any revolver in the world.

And thus we might go on and substantiate every claim ever made for IVER JOHNSON Revolvers; but suffice it to say—

The trade Prefer them
and
The public Demand them.

Send for finest fire arms catalogue ever published.



New York Office:
No. 99 Chambers St.

IVER JOHNSON'S ARMS & CYCLE WORKS,
FITCHBURG, MASS.

Rifle Telescopes.

Four interesting booklets and catalogues have been issued by the J. Stevens Arms and Tool Co., Chicopee Falls, Mass., describing their rifle telescopes, fire arms, and the "Stevens-Pope" specialties. An illustrated description of the winning of first place at the annual tournament of the .22-Calibre Rifle League of the United States, is also included, the target scores re-produced showing that high-class work was done by the men behind the Stevens' guns. Readers of this paper should send for the catalogues, mentioning Hardware and Metal when writing.

Iver Johnson's Arms.

Readers of Hardware and Metal should send for the new catalogue just issued by the Iver Johnson's Arms and Cycle Works, Fitchburg, Mass. The book is a work of art, and the "New Things" described should be read by all who handle sporting goods. Mention Hardware and Metal when writing.

Sporting Goods Catalogue.

Caverhill, Learmont & Co., of Montreal, have issued their sporting goods catalogue for 1905. It is called the "Blue Book on Arms and Ammunition." It consists of eighty-four pages of illustrated firearms, ammunition, and shells, and intelligent reading matter. The paper in the catalogue is well coated, thereby showing up the illustrations to good advantage. The colors of the inks used in this catalogue are green and red, which gives it a very bright appearance. This publication is also very instructive, as full information and price lists are given regarding each illustration. Readers who mention this paper may secure one of these handsome catalogues by writing to the above address.

John Millen & Sons' Catalogue.

A large sporting goods catalogue, consisting of 290 pages, the regular number for this year, has been issued by the firm of John Millen & Son, of Montreal. The design of the cover is rich and effective. The inside pages are profusely illustrated, making the reading matter very interesting and attractive. We urge every member of the retail trade not already owning one of these catalogues may secure one free of cost by writing to the above address and mentioning the name of publication in which the notice was seen.

H. S. HOWLAND, SONS & CO. LIMITED

HARDWARE MERCHANTS

Wholesale Only

138-140 WEST FRONT STREET, TORONTO

Only Wholesale

RETURNED APR 15 1905



WARD & PAYNE,
Ladies' Garden Shear.

RETURNED APR 15 1905



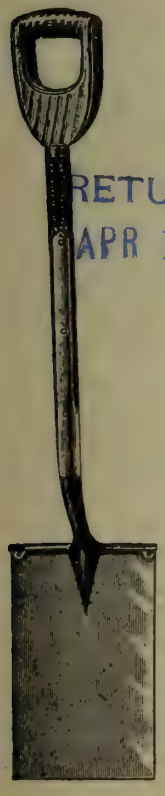
GRASS CATCHERS, for Low and High Wheel Mowers,
also suitable for the Great American Lawn Mower.

RETURNED APR 15 1905



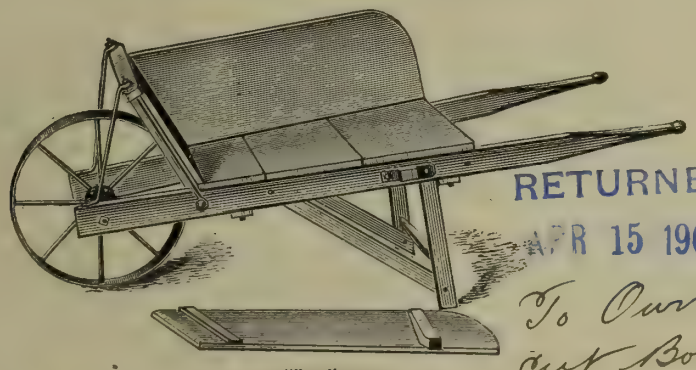
WARD & PAYNE,
Garden Shears.

RETURNED APR 15 1905



HARDY'S
Socket Long Strap.

RETURNED APR 15 1905



Wheelbarrows.

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To Quote
out Book 33
Page 46

RETURNED APR 15 1905



Lawn Rakes.

RETURNED APR 15 1905



DEACON'S
English Sod Cutter.

FOR FULLER LINES SEE OUR HARDWARE CATALOGUE.

H. S. HOWLAND, SONS & CO., LIMITED, Toronto.

We Ship Promptly.

GRAHAM NAILS ARE THE BEST.

Factory: Dufferin Street, Toronto, Ont.

Our prices are right.

TARGET TIME

Boys should learn to shoot. And they will learn if they get the chance. What boy is there who cannot own a rifle?—

A Hamilton Rifle

that costs him only **TWO DOLLARS**

The hardware dealer can get from his Canadian jobber this rifle, Model No. 15, or Model No. 19, which is 4 in. longer and retails at $2.50.

They shoot 22 cal., long or short, are "take down" pattern and have walnut stocks. They are genuine firearms, not toys. For small game they are just the thing. One jobber says: "We sold a raft of them." We have a circular that describes them fully. Send for it.

THE HAMILTON RIFLE CO.

Dept. 71. PLYMOUTH, Mich.

CONNOR'S O. K. ROTARY WASHER.



No experiment, but a trade winner. Dealers who handle this washer say they sell easier than any other. Write for our catalogue and price list.

J. H. CONNOR & SON, LTD., Manufacturers OTTAWA

...FULL STOCK...

Salt Glazed Vitrified



Double Strength Culvert Pipe a Specialty.

THE CANADIAN SEWER PIPE CO.

HAMILTON, ONT. TORONTO, ONT.
ST. JOHNS, QUE.

CUT PRICES

LOADED TRAP SHELLS

Best English Manufacture. Quality equal to American.

Nos. 12, 16 and 20 Gauge.

In lot of 4 cases,		*$12.50 per 1,000*		*Packed 25 in Box, 500 in case.*
" " 10	*"*	*12.00*	*"*	
" " 20	*"*	*11.50*	*"*	

F.O.B. Montreal or Quebec. DELIVERY: First of July.

To benefit of these low prices orders must be given us before April 30.

COTE, BOIVIN & CIE.

Wholesale Hardware. **CHICOUTIMI, QUE.**

FIREARMS AND AMMUNITION.

GUNS, rifles, revolvers, and their accessories are very generally a portion of the stock of the Canadian hardware dealer. With our fondness for outdoor life and the abundance of game in our northern woods, the trade is a valuable one, and by keeping thoroughly posted on the latest improvements and models, the merchant should find the business frequently capable of development.

Proficiency in the use of firearms, and especially the development of workmanship, is an object the Militia Department of the Dominion Government has thought fit to promote by encouragement given to rifle clubs. The South African war proved the worth of the sharpshooter in national defence. In the United States great attention is also being given to this style of shooting, and rifle and revolver clubs are numerous, not only in military organizations, but also outside of them.

In Canada it is only in our largest cities that revolver and pistol shooting as a sport is practised. But, if hardware men and sporting goods dealers would endeavor to interest their patrons in this pastime, it is more than probable that they would find a sufficiently increased demand for small arms to warrant their efforts. Not only is pistol and revolver practice a pleasant pastime, but the dexterity acquired by the use of small arms gives its possessors a feeling of security that amply repays the time, trouble, and comparatively small expense involved in securing it.

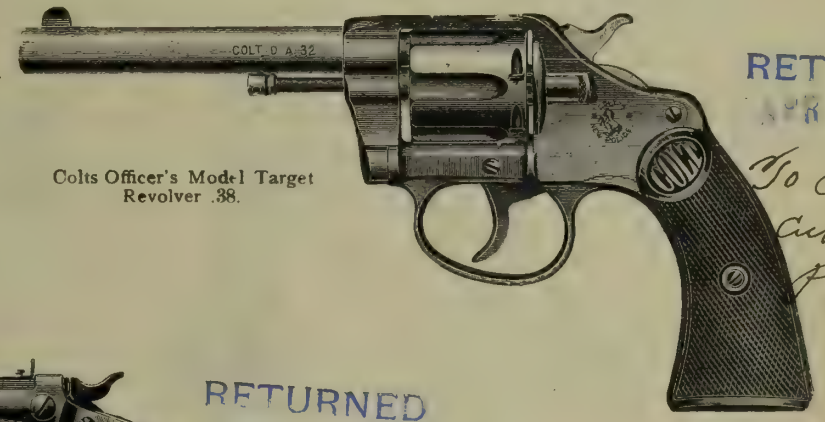
In spite of considerable opposition from some sources to control its sale, the revolver, as perfected to-day, is a weapon so safe and so accurate, so well adapted to both the pleasure and protection of its owner, that it should be in the possession of everyone. But the owner should by all means familiarize himself with its use, for the simple reason that not only does the value of the revolver lie in the accuracy with which it is handled, but the individual who thoroughly understands its use is the one to whom accidents do not occur. During the winter evenings a very fascinating sport is revolver and pistol shooting on an indoor range, and it should not be difficult to find a cellar in almost any town or village that would be available for the purpose.

In selling pistols or revolvers for target shooting, a point which it is well for the dealer to bear in mind, is that the beginner does not necessarily secure the best results with the most expensive arms. In the hands of an expert a heavy target pistol or revolver would give better results than one of lighter weight, but to the novice at pistol shooting, with an untrained wrist and arm muscles, the strain of holding at arm's length a revolver weighing more than two pounds would be so tiresome that the hand would tremble more, causing wilder shooting to result than if a lighter and less expensive weapon had been chosen.

As experience in shooting is acquired, and the muscles become educated to stand the strain, the lighter weapons may be displaced by the heavier and more costly arms. The shooter will then find that, having acquired the necessary strength to hold the heavier arm without fatigue, the greater weight, and the consequent diminished recoil of the more costly arms, will add to his accuracy in shooting. Should the dealer, however, make the mistake of starting the novice off with a heavy arm, it is more than likely that he will be handicapped by the very weight that, further along in his practice, would have been of assistance to him. This is the explanation of the failure of many who begin target shooting with high-priced revolvers and pistols, charging up to the inability to become a good shot what was really the result of an ill-advised purchase.

Among the newest and most popular weapons on the Canadian market to-day, which are particularly adapted to the target shooters' use, may be mentioned "Stevens' Diamond Single-Shot Pistol," "Smith & Wesson's Military Model, 1902," and "Colt's Officer's Model, .38" and "New Service Target, .44 Russian."

For the beginner a good weapon is the Steven's Diamond Model. It shoots the economical 22 cartridge, and is light in weight. The size with six-inch barrel weighs only 10 ounces, while the 10-inch barrel weighs two ounces more. A little more expensive, but still in the same class of light arms, the Hopkins & Allen and Iver-Johnson .22 calibre revolvers, with 6-inch barrels and blued frame, are good weapons.



Colts Officer's Model Target Revolver .38.



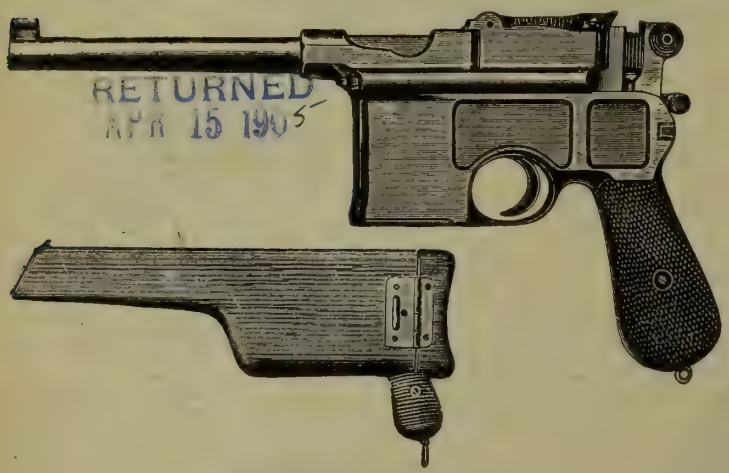
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APR 15 1905

For heavier arms, for use after some practice with the lighter, I would recommend a Smith & Wesson Military Model, 1902, Colt's Officers Model, or their Service Target. These are all made with a 6 1-2 inch barrel, and with front sight adjustable for elevation and rear sight for windage.

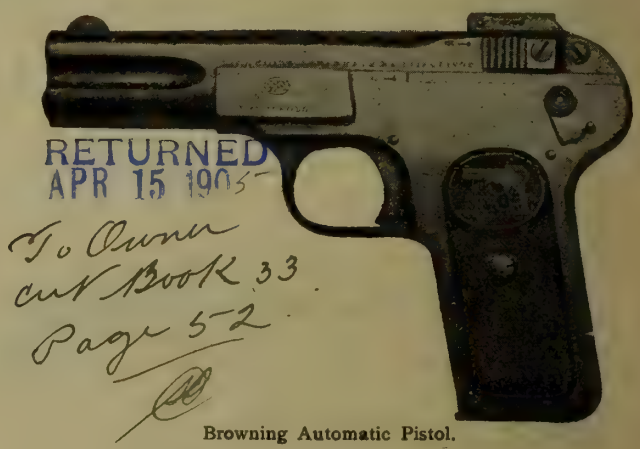
Of rifles for target practice and small game shooting there are so many excellent models of the different makers that it is difficult to particularize. One is not so likely to go astray in the selection of a light rifle as in the choosing of a revolver or pistol. Since the advent on the market of the low-priced American rifles, beginning with the

various Stevens lines, and the Winchester Single-Shot Model, 1900, the Floberts, of Belgian and German manufacture, are beginning to disappear from Canadian hardware stock.

In sporting rifles the hardware man and gun dealer will not find himself called upon to add any new lines this year. As yet there is no Canadian rifle on the market, although it is understood that the Ross Rifle Co., of Quebec, which has the contract for making rifles for the Canadian Militia, will, before long, bring out a line of sporting rifles. Just as the American single-shot rifles are driving the German and Belgian Flobert rifles out of the market, so does the American manufacture of double-barrelled shot guns give promise of equal success against the low-priced foreign article. The superior shop organization of the American ought to place him in as favorable a position to produce a cheap and good shot gun as low-priced labor does the German manufacturer, and added to this a market of 80,000,000, in time he doubtless will.


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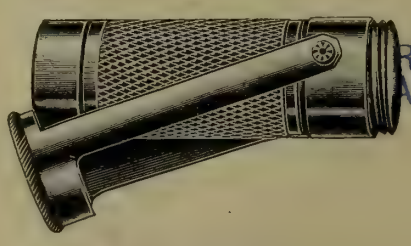
The Mauser Automatic Pistol.


RETURNED
APR 15 1905
To Owner
out Book 33
Page 52

Browning Automatic Pistol.

But while the American manufacturer is having success in the production of low-priced guns, he is not so prominent in the manufacture of the higher grades. To American ingenuity we owe the pump gun and the automatic shot gun. Against the latter, however, there has been such an outcry on account of its destructiveness to game that its use is being considerably restricted. Moreover, it is not an arm that should appeal to the true sportsman. Many of the States of the Union, and our own North-West Territorial Government, have legislated against it, while others seem likely to do so.

English manufacturers still lead in the manufacturing of the finer grades of shot guns that appeal to the expert trap shooter and sportsman. One of the latest firms of these excellent gun manufacturers to place their guns on this market is that of the Clabrough & Johnstone. For some years they have had a large market in South Africa, Australia, and India, where their guns are held in high estimation. One of their guns in particular that is worthy of special mention is the hammerless safety pigeon and duck gun. This is not an arm for the novice, although he would not go much astray in purchasing it, but it is intended to meet the requirements of the expert trap shooter, or of the man who has had experience in duck and partridge shooting and wants the best and is able to pay for it. The barrels are made of a special diamond steel used by this firm, and choke bored for close and hard shooting. With a load of 1 1-8 oz. of No. 6 shot, this gun will make a pattern of 240 evenly scattered on a 30-inch target at 40 yards. A feature of this gun is the safety bolt which can be made either automatic—the gun being made safe every time it is opened—or non-automatic, that is, the safety bolt can be shifted to a position where it does not return to safe when the gun is opened. This allows the rapid discharging and reloading of the arm, which every duck hunter knows is a desirable point about a gun.



Marble's Match Box.

Without reliable ammunition that will discharge every time the trigger is snapped there is little satisfaction to be found in shooting. A few good chances to bag a bird spoiled in this way is liable to upset the temper of a man even when among the soothing influences of the woods, or the duck marsh, as well as to discredit the ammunition. Among new things in shot gun shells this season is a "brush" loaded shell, with a spreader to give an open pattern at ranges of 25 to 30 yards. The Dominion Cartridge Co. is also bringing out four new shells this year, which they have christened "Crown," "Sovereign," "Regal" and "Imperial." The Crown is adapted for black powder, the Sovereign for bulk smokeless, and the Regal for dense smokeless. The Imperial is a high base shell, designed especially for the use of trap shooters. The standard loadings for Sovereign shells will be Nobel's Empire and Ballistile, and Dupont's smokeless powders. These shells will be put up in the usual quantities in boxes with labels of a new design, with distinctive colors, making attractive packages This should increase still more the popularity of this company's well-known lines of ammunition.

RETURNED
APR 15 1905

SEASONABLE SUGGESTIONS.

Spring housecleaning calls for a large line of house supplies. There are carpet sweepers, carpet beaters, brooms, dusters, tacks, hammers and carpet stretchers, drying frames for curtains, picture cord, picture hooks, curtain fixtures, step ladders, and a lot of other things. Make a window of the housefurnishing goods.

A new attachment for the fishhook is made to keep the frog right side up in the water. It is claimed that it will make him swim right whether alive or dead.

JOHN MILLEN & SONS

RETURNED APR 24 1905

KEYS

We believe that we are now carrying the largest and most complete assortment of Keys in Canada, and lead in price as well as variety.

Send for special Key Catalogues

SOLE IMPORTERS:

FRENCH. ALPHA LAMPS
R. F. HORNS
R. F. AMMETERS
R. F. VOLT METERS

Canadian Distributors

Solar Lamps



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Columbia Batteries
Dayton Dynamos
Kingston Carburetors
Splitdorf Coils

Send Postal request for 1905 Catalogue, largest we have ever issued, about 300 pages, describing

BICYCLES, SUNDRIES, TIRES, TOOLS, AUTO SUPPLIES, SPORTING GOODS.



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JOHN MILLEN & SONS

MONTREAL——————and——————TORONTO

The Standard Ideal Sanitary Co. Limited

MANUFACTURERS OF

Porcelain Enamel Bath Tubs Lavatories Sinks Slop Hoppers

"MADE IN CANADA."

Write us at once if you want to secure

A CATALOGUE

of the latest designs of **Porcelain Enamelled Bath Tubs, Sinks, Urinals, Latrines, Etc.**

Now ready for distribution and will be mailed on application.

THE ONLY MANUFACTURERS OF ENAMELLED WARE IN CANADA

Head Office and Factory:
Port Hope, Ont.

Sales Office:
50 Colborne St., Toronto.



THE MORRISON LINE OF BATHROOM SPECIALTIES

is thoroughly up to-date and should be a trade-getting adjunct of every hardware store.

Our stock includes everything that is useful or ornamental for the bathroom, and which will sell quickly at reasonable prices, and yet offer a good margin of profit to the dealer.

Let us quote you prices.

THE JAMES MORRISON BRASS MFG. CO., LIMITED

TORONTO, ONT.

J.M.T.

THE MORRISON LINE OF STEAM FIXTURES AND SPECIALTIES

is the most complete in the Dominion. It includes the best in Oil Cups, Steam and Vacuum Gauges, Iron and Brass Pipe Fittings, etc. Also "J.M.T." Injectors, Hancock Inspirators, "J.M.T." Valves (2,000,000 in use) and other quick sellers which make good business for the hardwareman.

The James Morrison Brass Mfg. Co., Limited

Toronto, Ont.

HEATING AND PLUMBING

DEFECTIVE HOT-WATER HEATING.

By W. H.

ARTICLE VI.

IN order that people may know the great necessity of installing a hot-water heater properly, the accompanying cut will assist in demonstrating the great differences in the connections.

The cut represents the returns taken from the bottom of the boiler and into the heater about 12 inches above the level. It was found, after working several days and changing the connections on the top in several different positions, that no better results were secured. It was found that the water would not circulate, and it was absolutely impossible to heat the water 8 inches below the tops of the boilers, although different heaters had been used.

The writer inspected this particular job a few days ago, and as will be noticed, he recommended that the pipes be changed from the returns at the bottom of boiler to the sides, as is shown by the dotted lines in the accompanying cut. This, of course, goes to show that the cold water presses downwards. After changing the connections, the water circulated most rapidly, and could be heated with one-half the fuel it would otherwise have taken with very unsatisfactory results.

Fitters should be very careful in making connections for hot-water heating, as the circulation of water is a most delicate thing to tamper with.

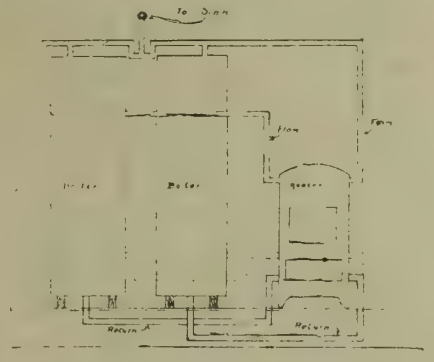
Another way that this could have been made to work would have been to carry the flow pipes up, say, 8 feet above the boilers, and come back to top. This would have given a "head" to move the cold water pipe on the bottom. Cold water should be always carried to heaters with a rise, if at all possible, and flow pipes should be always carried with a slight raise.

As many of our readers may come across matters of this kind, this will refresh their memories, and may be of some service.

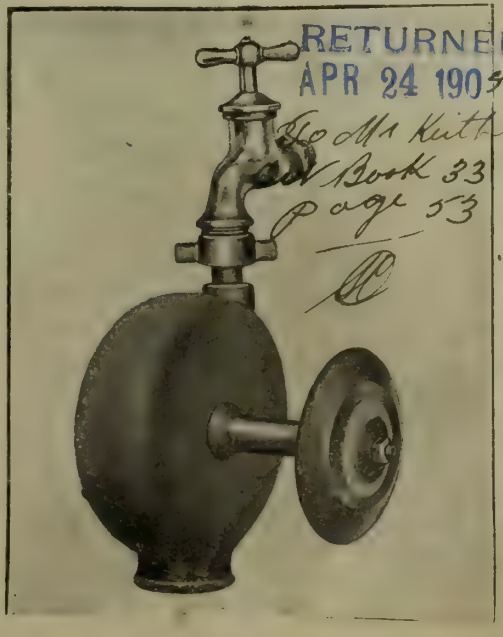
A Plumbing Museum.

AN important work is going on at the Parliament Buildings, Toronto, under the superintendence of M. J. Quinn, mechanical superintendent, the work being the collection of specimens of plumbing work and fixtures, dating from the present time, back, if possible, to that of the earliest known work in that line.

Space for such a collection has been provided by the Provincial Board of Health, and the object is to demonstrate in a practical way the great advance which has been made, particularly during recent years, in the manufacture of plumbing fixtures, piping, connections, etc., as well as in the workmanship necessary to the installation of the same.



The Department is desirous of obtaining specimens of old closets, and other fixtures, which are not now considered to be up-to-date, or equal to those which are to-day popular with the trade; also, samples of ancient hand-made lead, soil and waste pipe, traps, bends, etc.; ball and other cocks, defective joints which have been taken out of old work, etc., and generally, such things as are likely to be of interest in such a collection. Full credit will, of course, be given to those who can supply specimens of the kind referred to, by properly labelling them, giving name of doner, etc.



The Divine Water Motor.

The leading manufacturers of plumbing goods in Canada and the United States are supplying samples of modern and out-of-date apparatus, and the exhibit will soon be in shape for inspection. The subject is an important one, and Hardware and Metal is pleased to announce that an article giving full particulars of the plan will be available for publication at an early date.

Divine Water Motor.

We herewith illustrate a new and very useful article offered by the Smith & Hemenway Co., of 296 Broadway, New York. It is a water motor which actually develops 1-8 break horse-power on 80 pounds pressure from a city main, using No. 150 nozzle, or about 1-8 in. stream—80 pounds being the ordinary pressure from a city main. Motors are furnished this way unless specially ordered. However, we are informed that they can supply larger nozzles where the power is greater.

The little motor develops a speed, on pressure mentioned above, of forty-five hundred (4,500) revolutions per minute, with an ordinary 5-in. emery wheel or a 9-in. buffing wheel (for polishing). The emery wheel is suitable for grinding knives, scissors, razors, axes, hatchets, hammers, or, in fact, any edge tool. The buffing wheel is suitable for polishing, cleaning and buffing any metal surface.

This will be found a valuable addition to any boarding house, restaurant, dentist, butcher, or private house where any grinding is to be done. It also has sufficient power for running sewing machines, small lathes, scroll saws, dynamos, etc.

The illustration above shows the motor attached to an ordinary screw sink faucet in a private residence, and can be

adjusted to either the right or the left-hand side.

We are informed that the motor is almost indestructible. Being strongly built, will last for years without any repairs, and is so perfectly made that all the parts are interchangeable. Extras can be had at a nominal expense.

The total weight, complete, put up in a box, with polishing wheel or buffing wheel, emery wheel, stick of polish, is 6½ lbs.

Printed matter and prices will be sent on application.

Havana a Pest Hole.

Fair Havana, gem city of the Queen of the Antilles, is not, if the special correspondent of the New York Herald is credible, an Eldorado of health and sanitary conditions, despite the glowing accounts of the reclamation of the place from the clutches of disease. Beautiful, but foul, is the summary of his observation of conditions. Open sewers of filth still throw off their emanations of disease germs, which are enveloping the populace with the white death—consumption—and are liable at any time to fasten again on the community that dreaded scourge, yellow fever. The Cuban authorities do not appear to profit by the initiatory work of the Americans in the eradication of the plague spots. No attempt is made according to this correspondent, to correct the unhygenic abuses. There is no system of sewers, and open runs from slaughter houses, reeking with filth, and exposed ditches which carry to the harbor fetid streams, are tolerated with equanimity, a liberal sprinkling of chloride of lime being regarded as a sufficient sanitary measure of precaution. The picture is not enticing to tourists seeking a health resort, and if the Cuban authorities desire the confidence of foreigners to visit that picturesque island, they will have to give their city a more than superficial sweeping. The much mooted sewer drainage of Havana has not yet materialized.

TURNED
R 24 1905
Owner
Book 33
Page 54



A Modern Bathroom.

Wet Asbestos for Packing.

For packing flange joints, a correspondent of the Engineer claims that thin sheet asbestos (wet) is far ahead of the best rubber, if a permanent joint is required, though a rubber gasket can be put on much more quickly and easily. Great care is necessary in handling the wet asbestos, but if the joint is well made with very thin sheet asbestos, and the flanges are in good condition, it will stand several hundred pounds pressure.

Taking Spuds Out of Boilers.

Plumbers often find it difficult to take spuds or nipples out of old boilers, as in hammering spuds to loosen them one is apt to disfigure or split them. To take them out without injuring them heat nipple or spud with torch or furnace, and when hot put on pipe wrench and unscrew. If it does not come heat a little more. This method saves time, trouble and noise.

To Clean Marble.

To remove stains from marble take two parts of soda, one of pumice and one of finely powdered chalk. Sift through a fine sieve and mix into a paste with water. Rub this composition all over the marble and the stain will be removed. Wash it with soap and water, and a beautiful bright polish will be produced. A paste of vinegar and whiting, spread over the surface and left on for twenty-four hours, will do the trick equally well.

"The Best South Wales Produces"

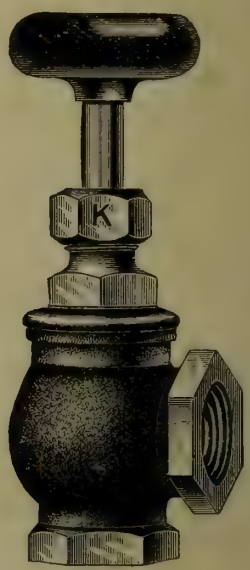
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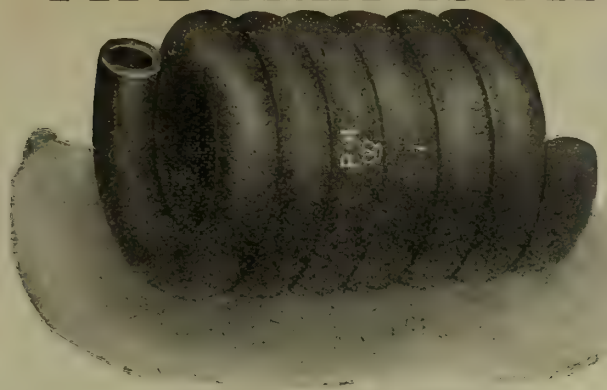
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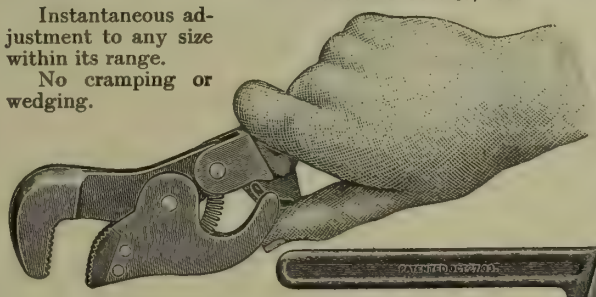
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Instantaneous adjustment to any size within its range.

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Increased Leverage, Strength and Efficiency.

No lost motion. Instantly locks and unlocks.

Will not crush the lightest pipe.

Cannot slip. The harder the pull the stronger the grip.



Expert mechanics pronounce it
THE STRONGEST WRENCH ON THE MARKET.

A Monkey, Ratchet, and Pipe Wrench combined.

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To Cancel Ref Book 37 Page 10

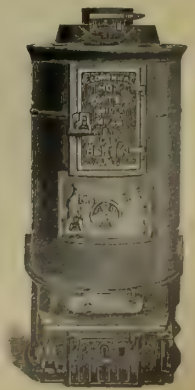


POWER

One of the remarkable things about

THE ECONOMICAL HOT WATER BOILER

Is its heating capacity. It has astonished many builders and others. We should like to send you some tributes to its heating powers.



P. GIES, Founder, BERLIN, ONT.

Plumbing Markets

THE PLUMBING SUPPLIES MARKET.

Quebec.

Office of HARDWARE AND METAL,
232 McGill Street.
Montreal, April 14, 1905.

LATEST reports from the local supply houses state that the warm weather of the past few days has allowed many master plumbers to commence their outside contract work. The commencement of outside work has resulted in many plumbers purchasing articles which they need to complete a job. Therefore, under these circumstances, everything on the market has a good demand. Orders are being received which call for shipment on April 15th, while others name the shipping day after opening of navigation. Prices are all firm, and no decline in any one line of goods is anticipated. Orders which were booked early in the season, and which called for shipments after the 1st of April, have all been forwarded. Trade in Prince Edward Island is better than it was a few days ago, but is still behind the class of trade that predominates in other parts of the Dominion.

Range Boilers—Our quotations are: Iron clad, 30 gallon, $6, and 40 gallon, $7.50 net; copper, 30 gallon, $22; 35 gallon, $24; 40 gallon, $28. The discount on copper boilers is 15 per cent.

Lead Pipe—Lead pipe has a fair demand. The demand is weakening, and is not expected to strengthen again until the repair work starts next winter. Price of lead pipe is becoming firmer, but no advance is anticipated owing to the decrease in the demand. We quote: Discount 30 and 5 per cent. f.o.b. Montreal, Toronto, St. John, N.B., and Halifax; f.o.b. London, 15c. per hundred lbs. extra.; f.o.b. Hamilton, 10c. per hundred lbs. extra.

Iron Pipe Fittings—Conditions which were prevalent during the past week continue unchanged. Discount on all sizes of nipples up to 6 inch 67 1-2 per cent. to 70 per cent.

Iron Pipe—Although the price of iron is very firm discounts on black pipe, 1-4 inch, 63 1-2 per cent.; 3-8 inch, 63 one-half per cent. Other prices continue unchanged. The demand is so great that mills have to continue in operation night and day in order to fill orders. We quote: Standard pipe, in lots of 100 feet, regular lengths, 1-4 inch, $5.50; 3-8 inch, $5.50; 1-2 inch, $8.50; 3-4 inch, $11.50; 1 inch, $16.50; 1 1-4 inches, $22.50; 1 1-2 inches, $27.00; 2 inches, $36.00; discounts on black pipe, 1-4 inch, 62 1-2 per cent.; 3-8 inch, 62 1-2 per cent.; 1-2 inch, 72 1-2 per cent.; 3-4 inch, and upwards, 74 1-2 per cent. Discounts on galvanized pipe: 1-4 inch, 47 per cent.; 3-8 inch, 47 per cent.; 1-2 inch, 62 per cent.; 3-4 inch and upwards, 64 per cent. Extra heavy pipe of 100 feet lots are quoted as follows: 1-2 inch, $12.00; 3-4 inch, $15.00; 1 inch, $22.00; 1 1-4 inches, $30,00; 1 1-2 inches, $36.00; 2 inches, $50.00. The discount for black pipe is: 72 1-2 per cent., and for galvanised, 61 per cent.

Soil Pipe and Fittings—The demand for soil pipe and fittings still continues to be very good. All orders received now call for immediate shipment. Prices are firm and continue unchanged. We quote: Soil pipe standard, 50 and 10 per cent. off list. Standard fittings, 50 and 10, and 10 per cent. off list. Medium and extra heavy soil pipe 60 per cent. off. Fittings 60 and 10 per cent. off.

Ontario.

Office of HARDWARE AND METAL,
10 Front street east,
Toronto, April 14, 1905.

BUSINESS is very active in all lines of plumbing goods, outside dealers in districts where there is no fear of labor troubles ordering in large quantities, one order placed this week being for fifteen complete bathroom outfits, the first instalment of an order for eighty. In the cities where labor unions are strong, and there is more or less danger of strikes, orders are not being given in large quantity, all that can be held being delayed until the strike danger is past. All the jobbers are rushed, however, and report the outlook for the season to be better than that of any previous year.

Lead traps and bends are now quoted at 50 and 10 per cent. rather than 50 per cent., this being the only change noted since last week. Solder is stiffening somewhat.

Lead Pipe—Prices are holding firm since the recent reduction. A large quantity of business is being done. We quote as follows: Lead, 7c.; lead waste pipe, 8c.; discount, 30 and 5 per cent.

Soil Pipe and Fittings—The demand continues active, with no change in quotations, which remain as follows: Medium and extra heavy pipe and fittings, 60 per cent.; 7 and 8 inch pipe, 40 and 5 per cent.

Iron Pipe Fittings—General activity is noted with the same quotations ruling as before. We quote: Malleable fittings 20 to 25 per cent. for American and 35 per cent. for Canadian; cast iron (standard), bushings, 65 per cent.; headers, 60 per cent.; flanged, unions, 60 per cent.; lipped unions, 60 and 5 per cent.; malleable bushings, 60 per cent.; nipples up to 6 inch inclusive, 75 per cent.

Copper Range Boilers—Demand continues to increase as building becomes more active. The discount continues unchanged at 15 per cent.

Galvanized Iron Range Boilers—The demand continues firm, orders being received in large quantity. Prices are unchanged. Quotations are: 12 gallon capacity, standard, $4.50; extra heavy, $6.50; 18 gallon, standard, $4.75; extra htavy, $6.75; 24 gallons, standard, $4.75; extra heavy, $6.75; 30 gallon, standard, $5; extra heavy, $7.50; 35 gallons, standard, $6; extra heavy $8.50; 40 gallons, standard, $7; extra heavy, $9.50; 52 gallons, standard, $11; extra heavy, $14; 66 gallons, standard, $18; extra heavy, $20; 82 gallons, standard, $21; extra heavy, $24; 100 gallons, standard, $29; extra heavy, $34; 120 gallons, standard, $34; extra heavy, $40; 144 gallons, standard, $47; extra heavy, $55.

Iron Pipe—The market continues strong. Quotations remain as follows: Black, 1-4 inch, $2.03; 3-8 inch, $2.06; 1-2 inch, $2.29; 3-4 inch, $2.87; 1 inch, $4.12; 1 1-4 inch, $5.62; 1 1-2 inch, $6.75; 2 inch, $9. Galvanized, 1-4 inch, $2.86; 3-8 inch, $2.89; 1-2 inch, $3.14; 3-4 inch, $4.02; 1 inch, $5.77; 1 1-4 inch, $7.87; 1 1-2 inch, $9.45; 2 inch, $12.60.

Solder—Prices are stiffening, the demand being active. We quote: Bar solder, half and half, guaranteed, is quoted at 19c.; wiping solder at 17 3-4c., and refined 18c.

Enameled Ware—A very strong demand is noted, the Canadian manufacturers having difficulty in filling the large orders being received. The new catalogue issued by the Standard Ideal Company lists a large number of new lines, and as the numbers of the plates have been completely changed it will cause some figuring to compare with the former list. On the whole there has been about a 5 per cent. reduction, that on one-piece roll-rim sinks being very marked. The new lines include slop-sink ranges, laundry and lavatory ranges, urinals, closet ranges, etc. Traps and bends are also enameled on the inside when required. The new list will be given next week.

A New Fuel.

"Radiant" is the name given to a new fuel, invented by two young English engineers, which is expected to accomplish in heating about the same thing that the Welsbach mantle did in gas lighting. It is to be used in connection for it that it gives treble the heat with with a gas fire, and the inventors claim the same gas consumption as an ordinary gas fire; that it takes up the carbonic oxide from the air and purifies the atmosphere; that it does away with the unpleasant smell given off by gas fires; that it burns brightly like a coal fire; that it is as cheap as fire clay and inexhaustible.

It will be interesting to note the development of this new device.

This Paint Sells



We are not giving you any worn-out phrases, such as "The best in the market" — "Always up-to-date"— "Made from the best," etc., etc.

You know all hat already. We tell you simply "This Paint Sells," and there is a profit in it for you— more profit than in House Paints— and the farmer wants it.

He will pay $1.00 a gallon easy, and you don't have to talk all day about it either. This is Ramsay's Outside Paints.

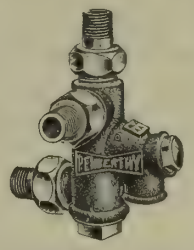
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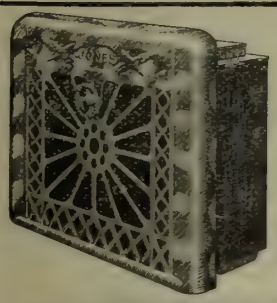
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ASK YOUR DEALER



A No. 12 JONES REGISTER
For second floor room. Bottom Collar fits 3¼x12 or No. 8 Wall Pipe.



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For first floor rooms. Bottom Collar, 7x14. These Registers are fitted with a Top Collar which fits 3¼x12 Wall Pipe or a plate when used for heating one room on the first floor.

ADVANCED METHODS OF WARM AIR HEATING

Is the title of our latest catalogue which illustrates and describes the

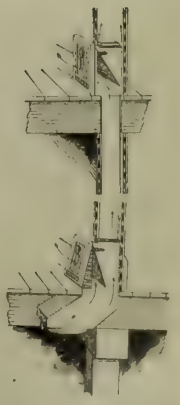
JONES SIDE-WALL REGISTERS, AND THE JONES SYSTEM OF WARM AIR HEATING

These Registers have been on the market since 1901 and are used by between five and six thousand of the best furnace dealers in Canada and the United States.

By the use of Jones Registers the efficiency of the furnace is **increased**; at the same time, the cost of installing furnace is **reduced**.

BE UP-TO-DATE AND USE THE BEST

There is included with each Jones Register, the register which is also a border, a double register box, a ventilator and a deflector. Wall pipes are two feet shorter and but one-half the number of basement pipes ordinarily used are necessary.



With Jones Registers but one-half the number basement pipes are necessary.

Manufactured by
THE JONES REGISTER CO.
295 College St., Toronto, Ont.

Manufactured for
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HOME OFFICE

THE UNITED STATES REGISTER CO.,

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Burchard St. & D.T. & M.R.R., ***BATTLE CREEK, MICH.***

OUR CATALOGUE FREE ON APPLICATION

THE MODERN HOME HEATING SYSTEM.

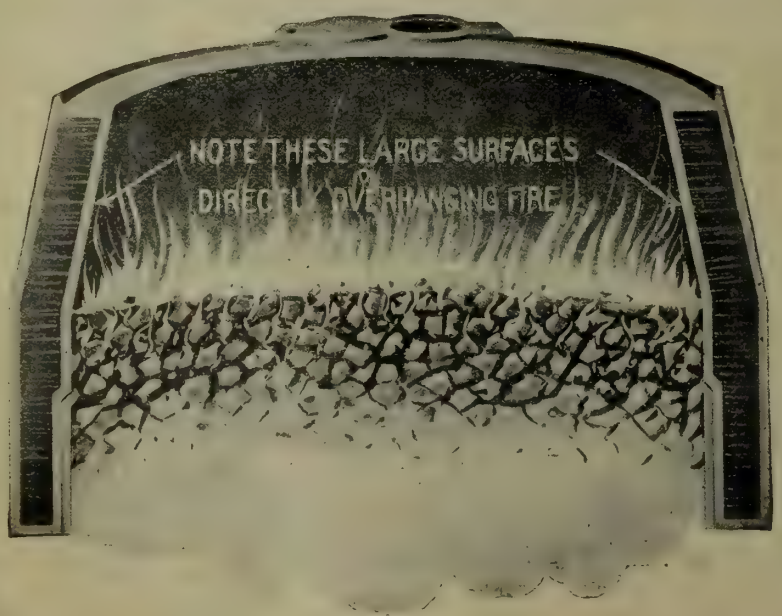
WE wish to bring to the attention of the Heating Engineers of Canada, the Oxford Hot Water Boiler.

This boiler has been tried-out in both Canada and the United States and proven its exceptional merits as an economical and efficient heater by over two years' actual use.

The Oxford Boiler is designed on scientific principles, which produce the greatest amount of heated, circulating water with the least combustion of fuel. The details of its construction give the reasons for this.

The ash-pit is particularly spacious and is provided with an ash-sifter which removes the dead ashes and leaves the coal, ordinarily wasted, so it may be shoveled back into the fire without dust or trouble.

The hollow triangular grate-bars give an immense air space without permitting live coals to drop through. A sharp turn of the grate clears out all ashes and clinkers, and a few extra turns will completely dump the grate when desired.



The construction of the fire-pot of the Oxford boiler is a very strong point. It is larger at the bottom than at the top, thus preventing the accumulation of dead fire and ashes around the edges of the fire and making it possible to run a low, even fire with considerable saving of fuel. The entire fire pot is jacketed with water, insulating the heat of the fire, and as the walls incline inwards over the fire, this gives a greater surface for the action of the fire and adds to the heating power of the boiler.

The first water section is nearer the fire than in any other makes, thus getting a more direct benefit of the fire and insuring a higher temperature with less fire. The flue openings are bell-shaped, giving a greater effective surface directly over the fire. By this construction the effect of the dampers is instantaneous and the economy of fuel considerable.

All the joints in the Oxford Boiler are metallic, no rubber or fabric washers being used. Each section is joined with a steel nipple, making it absolutely indestructible and free from leaks. The boilers up to size No. 4 are shipped with all connections made but one, saving considerable time in the erection.

We have prepared a catalogue explaining and illustrating the Gurney Oxford Steam and Hot Water Apparatus, which we will be pleased to send you on request. Write for it.

THE GURNEY FOUNDRY CO., LIMITED
TORONTO WINNIPEG VANCOUVER

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THE GURNEY STANDARD METAL CO., LIMITED
CALGARY, ALTA.

SOME QUESTIONS TO ANSWER.

THE following questions were asked of candidates desiring to pass the recent examinations of the Iron Founders' Association in London, England. Can any of our Canadian readers send us the correct answers? Sporting goods salesmen should know all about the goods they sell their customers. The questions are:

A.—What is the first thing you would do in taking a gun down from case to show to customer?

B.—Suppose a customer brought to you a rifle which was not marked with particulars of cartridges to be used with it, what would you do?

C.—How would you take a sulphur cast of a gun or rifle?

D.—What is the object of using a card wad over a felt wad?

E.—What do the letters "C.F.," "R. F.," and "P.F." mean, as applied to cartridges?

F.—What are the advantages of smokeless over black powder?

G.—How would you distinguish, without firing it, a badly-loaded cartridge?

H.—What is the object of chilled shot?

I.—What are the probable causes of a hang-fire?

TIME TO ORDER HAMMOCKS.

Dealers who have not yet placed their orders for hammocks and other hot-



weather goods should do so without delay as it is only a few weeks before the Summer season will be upon us and life in the open air will be the seasonable thing. Many of Hardware and Metal's advertisers have splendid lines for the trade. Give them a trial order if this is a new line for you to handle.

SEASONABLE SUGGESTIONS.

Get the fishing tackle out. As soon as the lake opens up the small boy will go fishing and his pa and the rest of the family will be out as soon as the law allows them.

Steel goods should be at the front now. As soon as the frost is out of the ground the gardening begins. Making hotbeds requires tools even before the seed comes.

Spring rains mean that eave trough, conductor pipe and roofs may need repairing. Call the attention of the public to the necessity of getting these ready before the rains begin.

HOCKEY SKATES.

For 40 years the Starr Mfg. Co.'s skates have been in active use in Canada and they are used to-day wherever hockey is played. The quality of steel and workmanship contained in the skates is guaranteed by their use during such a lengthy period. See their advt. in the centre of this paper.

We make Electric Fixtures, Sockets, and Cut-Outs

Munderloh & Co

Electrical Supplies of all kinds. MONTREAL.

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It is the fence that has stood the test of time—stands the heaviest strain—never sags—the standard the world over. In future Page Fences will be painted WHITE, which is an added protection against rust in addition to the galvanizing. Order through our local agent or direct from us.

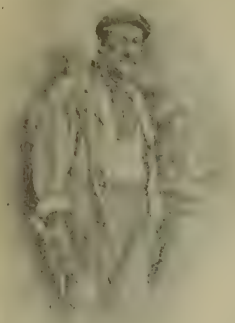
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We are now fully equipped and can fill all orders for these metals.
Send us specifications of your requirements. Write for our Discount Sheet.

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"Red Star" Packing

THE CANADIAN RUBBER CO. OF MONTREAL. TRADE MARK

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The old Engineer knows the value of our Trade Mark on a Rubber Article.

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We Sell Everything in Rubber

This Trade Mark is Stamped on Every Yard.

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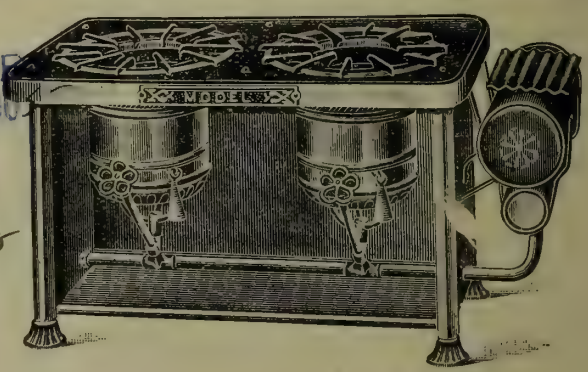
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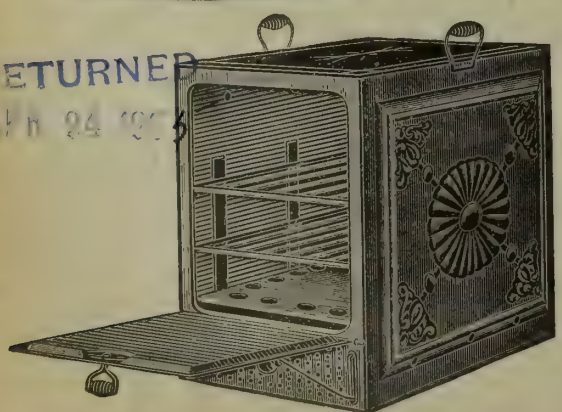


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To Owner
see Book 33
page 25



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Warm Weather Goods

Our 1905 Catalogue of warm weather goods is now being sent out.

It contains 24 pages and shows all our lines of gas, gasoline and oil stoves, refrigerators, ice cream freezers and improved cooking utensils. If you have not received a copy drop us a card. We can make prompt shipment of these goods.

The McClary Manufacturing Co.

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NEW ADVERTISEMENTS:

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Canadian Steel & Wire Co., Hamilton.
Enterprise Mfg. Co., Akron, Ohio.
Starr Mfg. Co., Dartmouth, N.S.
Wilkinson Sword Co., London, Eng.

THE PLUMBERS' CONVENTION.

THE annual convention of the Master Plumbers' Association of Ontario, which is to be held in Guelph on Good Friday, promises to be the most successful in the history of the plumbers' organization of this province.

Secretary Meredith, who paid a visit to Peterboro' and Ottawa during the past week, reports that representatives will be present from these places as well as from other eastern points. Delegates are already assured from St. Thomas, Hamilton, Windsor, London, St. Catharines, Berlin, Owen Sound, Galt, Woodstock, Barrie, Stratford, Brantford, Brampton, Alliston and Toronto, the latter place sending 24, including four officers. Other places which are certain to be represented are Collingwood, Stouffville, Lindsay, Orillia, Ingersoll, Perth and Listowel, while several other places may send delegates.

As there were only seventeen places represented at the annual gathering in Hamilton last year and twelve places sending delegates to the semi-annual convention in Toronto last Fall, it will be seen that there is every indication of a larger and more representative gathering than ever before, and great credit is due the present officers, whose administration has resulted in such a thorough organization in Western Ontario. With equal energy displayed next year it is hoped that Eastern Ontario will become equally as live to their interests next year.

Organization is the order of the day, and in these days of keen competitive industry the class of men who do not band together to improve their trade conditions and protect their trade interests—well, they are not up to date, to say the least. Let there be a large representation at Guelph next Friday and let "Organize" be the watchword in Eastern Ontario during the coming Summer.

OUT OF DOORS FOR HEALTH.

PERHAPS the two greatest aids to good health are exercise and out-of-doorness. The present age is active with every contrivance which human ingenuity can devise for the improvement of the health of the community by diets or medicines, or parlor gymnastics of one description or another. But all of these are starting from the wrong end. Nothing can be devised to take the place of exercise in the open air. All contrivances for exercising by use of dumb-bells, or pulling against a rope, or some other device for indoor work, fall far short of attaining their end. In going through any of these exercises one is performing a serious duty. No real pleasure enters into it, and as much benefit results to the system from the exhilaration and enthusiasm which comes from the enjoyment of the exercise as from the exercise itself. Hence, it is that the outdoor games of horseback riding, rowing, swimming, and all the list of sports make for healthy manhood and womanhood.

Now that the bicycle has safely weathered the gale of fads, it is universally recognized as one of the delightful forms of exercise available to thousands of workers who require some form of outdoor recreation. The time was when medical men differed in opinion as to the advantages to be derived from bicycle riding, on account of the immoderate way in which many people rode long distances at fast rates, when cycling was yet a fad. To-day one can search the length and breadth of the land and fail to find a physician who will not recommend cycling as one of the pleasantest, most healthful and beneficial forms of exercise which he can recommend to his patients.

The dealers and agents throughout the country who recognize the solid basis on which the popularity of the bicycle is founded, and push for the business as they used to, will find that this sober, sensible appreciation of the value of the bicycle is steadily growing, and that in coming years this condition will become more marked than during the past two or three seasons.

Canada is peculiarly situated, in as much as its seasons demand a sport different in Winter than in Summer. When the bicycle is laid away the one purely healthful sport of Winter-time is skating. There are few exercises which give the tone and exhilaration to the whole body, as well as to the mind, that skating does. Its popularity in Canada has been growing steadily each year, and within the next few years its growth will be even more marked as people study the problem of health more closely and recognize how much their health and happiness depend upon the maintenance of their physical body in a healthy condition. For this reason, then, it seems that skating and all the other sports, such as hockey, which go with it, are bound to grow in popularity with all classes of Canadians.

THE GURNEY CO. WINS.

AN interesting case was decided in St. Catharines this week, when the representatives of the plumbers, machinists and other unions were fined $1,500 for boycotting the goods manufactured by the Gurney Foundry Co. The company run an open shop, and refuse to hire union men exclusively, so the unionists declared the shop "un-

fair," and issued circulars announcing the fact. The unions in St. Catharines and Toronto co-operated, with the result that the Gurney business in St. Catharines dropped from $1,100 in 1901, to $1,900 in 1902; to $843 in 1903, and to $816 in 1901.

Evidence was submitted showing that the officers of the St. Catharines unions had written letters to the Gurney Co., and also to plumbers, contractors and agents of the Gurney Co. in the Canal City, the result being that dealers were forced to discontinue handling the Gurney goods, owing to fear of strikes and boycotts. In several cases contracts stipulating Gurney furnaces had to be thrown up by contractors in order to avoid trouble.

The trial lasted three days. Justice Anglin charging strongly against the union boycotters, and the jury brought in a verdict of $1,500 against the representatives of the unions, the jury being out only one hour. The decision will greatly strengthen the position of those who have their capital invested in Canadian industry, and weaken the efforts of the unions which, by declaring goods "unfair," endeavor to destroy the business of those who disagree with them.

THE STEEL TRUST'S INVASION.

MENTION was made last week of the proposed establishment in Ontario of a branch plant of the United States Steel Co., and it is understood that Vice-President Gayley has, as a result of the recent tour of inspection, recommended the establishment of the plant. The most likely site appears to be on Lake Erie, which would be convenient to the coke supply as well as to the ore fields in Minnesota.

The protective duty on steel rails has done much toward developing the industries at Sault Ste. Marie and Sydney and if it forces the Steel Trust to build a plant in Ontario in order to participate in the bounties on pig iron, steel billets, rails and plates, and wire rods, the duty will meet with little objection from any class which desires to see Canada's industrial development continue.

In pointing out the advantages which would accrue to the big American corporation by establishing a Canadian plant, the Wall Street Journal says:

"Influential interests in the United States Steel Corporation favor taking immediate steps to secure steel rail mills, rolling mills, and furnaces in Canada. Under the present bounty laws and tariff duties, the corporation would greatly benefit through a Canadian plant. It would not only save the export tax, but would also reap the benefit of bounty laws. In the matter of steel rails, all Canadian, so called, the bounties provincial and federal, amounting to $5.50 per ton, plus the minimum duty of $7 per ton, give the Canadian rail manufacturers an advantage of $12.50 per ton over the rail makers of the United States or Great Britain. But that is only the minimum advantage. Taking the maximum bounty and minimum tariff tax, the Canadian steel rail maker has a net advantage of about $16 per ton over either the American or British rail maker, while in the case of the German rail maker the advantage is equivalent to $19 per ton. Where it is considered that last year the United States Steel Corporation sold steel rails in Canada around $23 per ton delivered, and that it can turn out rails at a cost of from $14 to $16.50 per ton, the price of an argument for the Canadian plant may be estimated. It is not argued by the opponents of the plan that the Steel Corporation could count as profit all or nearly all of the bounties paid by Canada, but it could so fortify its trade position as to hold finally the Canadian trade. It could send iron ore from its own mines on its own ships to its plant at Port Colborne, for instance, and have it admitted free. There is no Canadian duty on iron ore. It could ship its coke from its own mines over its own rails and water lines to a Canadian plant and have it admitted free. There is no Canadian duty on coke. It could make steel billets at its American plants, ship them to Canada, turn them into finished products, and get back nearly all the duty."

THE SPRING TRADE NUMBER.

The following is one of many letters received by HARDWARE AND METAL regarding the recent Special Number, and which we desire to acknowledge, expressing our appreciation of the sentiments expressed:

Office of The Clyde Cutlery Company,
Clyde, O., U.S.A., April 5, 1905.

The MacLean Publishing Co., Limited, Montreal, Que.

GENTLEMEN, We beg to acknowledge receipt of your Spring Trade Number of HARDWARE AND METAL, and wish to compliment you on it. It certainly is as handsome a piece of trade journal work as we have ever seen, and should largely increase your circulation and your line of advertising.

Thanking you very cordially for sending it to us, and trusting that the year 1905 and the years to come may bring you an abundance of the good things of life, we beg to remain,

Yours very truly,

(Signed) R. B. JONES, President.

SHIPBUILDERS COMBINE.

THE announcement made last week that the Bertram Engine Works was being taken over by the Canada Foundry Co. was slightly erroneous, as it is the Canadian Shipbuilding Co. with which Bertram's Works are being amalgamated. It is all in the family, however, as the Shipbuilding Co., like the Canada Foundry, is closely allied with the Canadian General Electric Co., Mr. Frederic Nicholls being the central figure in all these great corporations. In an interview on the subject Mr. Nicholls said:

"The facts of the proposed consolidation are that the Canadian Shipbuilding Co. have equipped a modern shipyard on the Niagara River, near Buffalo, capable of constructing, at one time, four upper lake vessels of the largest class. The company owns about one hundred and eleven acres of land, and has about 1,400 feet of water frontage on the Niagara River. The Welland Canal intervening between Lake Ontario and our yard on the Niagara River, it would be inconvenient to build such a steamer as the one we have recently contracted to build for the Niagara Navigation Co. at our upper lake yards, and negotiations were entered into with the Bertram Engine Works for the acquirement of their property in Toronto, which would give the Canadian Shipbuilding Co. a yard on both Lake Erie and Lake Ontario. The Bertram Co. have well-equipped machine shops for the construction of marine machinery of a certain class, and the probability is that, for the larger equipments, arrangements will be made to have such manufactured at the Canada Foundry Works, as they have the best equipped shops in Canada for the largest types of all classes of heavy work."

WESTERN TRADE PROSPECTS.

SPRING trade in hardware lines has opened out well in the West, the liberal buying of retailers showing their confidence in this year's business outlook. With the opening of Spring, immigrants are pouring into the West through its gateway at Winnipeg at the rate of several thousand per week, and this influx of population distributed throughout the country necessarily means increased business for all branches of trade. Perhaps no store benefits more by the coming of immigrants and the development of the country than does the hardware store. From it are obtained building supplies and household utensils and these are required by all new comers.

It is not strange then, that, with the tide of immigration setting towards Canada stronger than ever before, the hardware merchant has been buying liberally. Building operations in Winnipeg promise to be more extensive this season than ever before, and the same remark applies to the whole of the West. Heating and furnace men have a tremendous market to exploit in Western Canada, a market so large that the Canadian manufacturer is scarcely able to supply it himself. All means business for the hardware and stoveman. There is profit to be made if he conducts his business by sane business-like methods, discarding all cut-price policies. The organization of western hardwaremen in a strong association is proof that they realize their opportunities and are not disposed to throw them away by foolish competition. The prospects for the western hardwareman during 1905 are the brightest.

ENGLISHMEN AND CANADIAN SPORT.

CANADA is getting plenty of free advertising these days, its development in every direction tending to bring our country before the eyes of the reading world. The last issue of the B. C. Review, published at London, Eng., speaks of a series of articles which are appearing in the Western Daily Press, which has a large circulation in Wales and Western England. The Review says:

"The writer deals largely with Western Canada, but draws particular attention to the wonderful country through which the new Canadian Pacific line runs from Toronto to Sudbury. 'An earthly paradise' is an hackneyed form of expression, but no other words will fitly describe this country which, from a sportsman's point of view, can only be left to the imagination. If English sportsmen will try this country for themselves, and as pioneers tell of their experience, they will soon convince their fellow-countrymen that all this is not mere exaggeration, but solid fact, as they can easily in these days of swift and comfortable travel, satisfy themselves.

"Our attention has been called to an article in the London Standard to the effect that the attention of English sportsmen is being strongly directed to Canada for its sporting possibilities. The Standard is a great power in English public life by reason of its thorough reliability on all matters on which articles are admitted to its columns, and consequently an article in such a paper is of far greater value than in a score of other less important ones. The writer in the Standard states that he has shot in North and South America, in South Africa, in India, Australia, New Zealand, China, and the Islands of the Malay Archipelago, and with all his experience, he asserts that from west of Winnipeg to the Rockies there is no more enjoyable land for the sportsman. He gives particulars as to short and long trips and their cost, and presents such an ideal picture of things in the West as should cause a flood in the tourist traffic next season."

NOTICE TO ADVERTISERS

On account of Friday of next week being a holiday, advertisers in Hardware and Metal are requested to send their copy in as early as possible next week, thus conferring a favor upon us and facilitating the publication of the issue in good time.

WHAT CONSTITUTES FRAUD?

IN these days of "get-rich-quick" schemes, the standard of business morality is not as high as might be expected even in Canada with a reputation for commercial integrity. It is to be feared that our merchants are sometimes prone to cultivate "the elastic conscience" in such matters as selling goods for price, etc., forgetting for the time being that there is little more than a hair's bredth separating honest from illegitimate profit in trade. The offenders are innocent enough, perhaps, in their own minds; at the same time it is well for the trade to be thoroughly cognizant of the fact that a vicious principle is being introduced that will in time sap the vitality of business relationship.

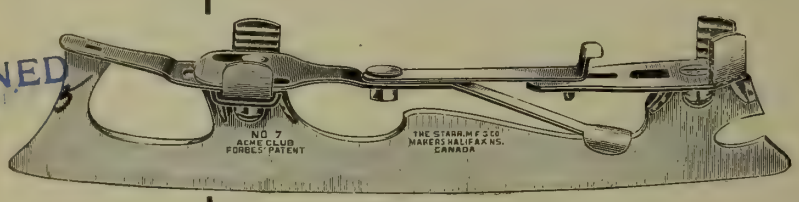
An important decision in the law courts recently against a St. Thomas merchant for obtaining goods under false pretences, only serves to emphasize the serious meaning of dishonesty in business. The merchant in question bought goods on a false representation of his financial standing, and in order to further postpone the discovery of the true condition of affairs mutilated his accounts. All the while he was heavily indebted to numerous friends and acquaintances, whom he was using to further his own ends.

Judge Winchester, in his charge to the jury in the above case, touched upon the vital point at issue when he said that "in commercial transactions, honesty is the only thing that men can rely upon between man and man and firm and firm; if that is gone, then commercial life is gone in our country. If we have not honesty between merchants, wholesale and retail men, then the whole fabric of our commercial enterprises is shaken. It depends upon the honesty, the truthfulness, in dealings between man and man to establish a proper commercial community. If that is gone, then good-bye to all honesty in dealings in other matters. That is the foundation of the whole of society."

STRATFORD BOOMING.

Stratford bids fair to become before long one of the leading manufacturing centres of Ontario. New and important industries are being attracted thither in surprising numbers. At the present time a new carriage factory is nearing completion, and negotiations are going on which will probably result in the location of two more factories. In other directions building is going on apace. A local concern has acquired a large tract of land and is erecting dwelling houses at a rapid rate. Two more churches—a Catholic and an English Episcopal—are to be built, a sure sign of a steady growth of population. Altogether the good citizens of Stratford are well pleased with the outlook.

OUR LINE OF SKATES FOR 1905-06



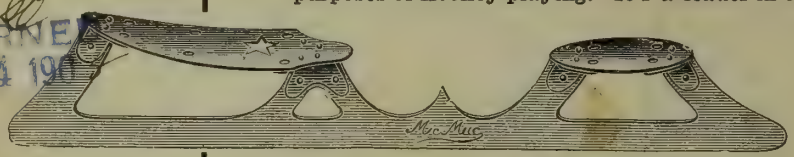
THE GENUINE "ACME"

The GENUINE ACME is manufactured on the best principle yet devised for self-fastening Skates. It is so good that it has had many imitators, but it is superior to all imitations—superior both in material and finish.



THE REGAL HOCKEY

We have spared no expense in working out the details of this Skate, with the result that we have in it the very best thing that can be made for the purposes of Hockey-playing. It's a leader in every respect.



THE MIC-MAC HOCKEY

Here is a Skate, which, year by year, grows in popularity among Hockey players. The large sales of the past year are sufficient evidence that it meets all requirements. The front double bracket is one of its special features.



THE FEATHERWEIGHT MIC-MAC

The general lines of this Skate are the same as in the standard Mic-Mac, with addition of a webbed re-enforcement which ensures extra rigidity. The thin blade also serves to reduce friction, especially on good, hard ice.

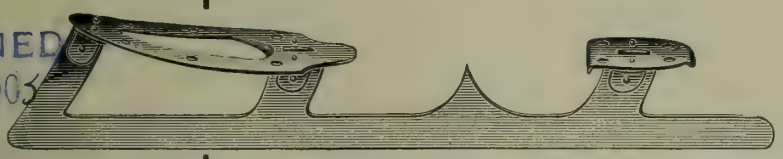
THE STARR MANUFACTURING CO. LIMITED

DARTMOUTH, N.S., CANADA

and 59 YORK ST., TORONTO

RETURNED APR 24 1905

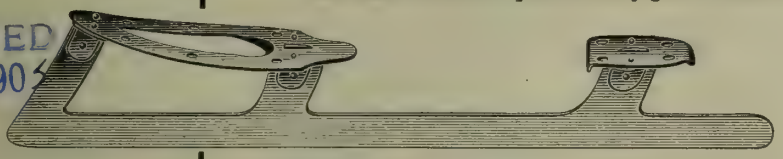
THE LINE THAT GIVES SATISFACTION



THE BRACKETED HOCKEY
WITH PUCK-STOP

One strong point about the BRACKETED HOCKEY, is, that while strong and serviceable, it is also a Skate within the reach of modest purses. The BRACKETED affords particularly good value for the money.

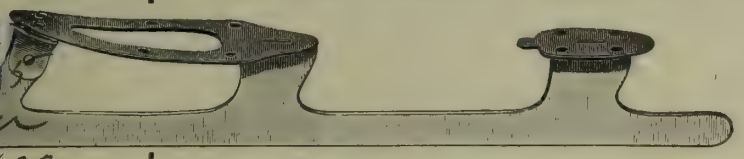
RETURNED APR 24 1905



THE BRACKETED HOCKEY
WITHOUT PUCK-STOP

The BRACKETED is sold both with and without puck-stop. The principal feature of this Skate is the bracket, which is of such material and design as to resist the strain which comes directly on the tops.

RETURNED APR 24 1905
To Owner
at Book 33
Page 85



THE BOYS' HOCKEY

This is a Skate that you can sell so cheaply that no parent will be afraid of trusting it to the destructive faculties of his offspring. It is a strong, simply-designed Skate, made from good materials.

RETURNED APR 24 1905



THE MIC-MAC HOCKEY STICK

Every year its sales are larger, showing that its good reputation is spreading. The name, "MIC-MAC," IS REGISTERED AT BOTH OTTAWA AND WASHINGTON, and we would ask dealers to beware of imitations, because we intend at all times to see that our trade mark is fully protected. Selection of stock, rigid inspection and method of manufacture, explain why no other Hockey Sticks are as good as "MIC-MAC."

THE

STARR MANUFACTURING CO. LIMITED

DARTMOUTH, N.S., CANADA

and 59 YORK ST., TORONTO

MARKETS AND MARKET NOTES

(For detailed prices see Current Market Quotations, page 66.)

Quebec Hardware Markets.

Office of HARDWARE AND METAL,
232 McGill Street,
Montreal, April 14, 1905.

FINE open weather has caused a great amount of outside work to commence. This in other words means that goods which were purchased some weeks ago by the retail hardware merchant are now beginning to have a better sale. Better and larger orders are being received by the majority of the local wholesale houses from Prince Edward Island. With the exception of this province, already mentioned, the trade throughout the Dominion is good. The orders that are being received are well assorted, which implies that the retail merchant is balancing his stock. Everything in connection with a building, such as nails, cement, building paper, builders' hardware, and inside hardware trimmings, etc., have an excellent demand, and the present outlook points to a trade which for its volume and value has never been equalled in previous history. It is stated that the matter of revising the price of firearms is being considered. Travelers are booking large orders for firearms and ammunition. The majority of these orders call for future shipment.

Axes—A few orders are being booked, which in nearly every case call for shipments to take place next Fall. Prices remain the same. Our quotations are as follows: Chopping axes, unhandled, $6 to $9.50 a dozen; double bitt axes, $9.50 to $12 a dozen; handled axes, $7.50 to $9.50; Canadian pattern axes, $7.50 a dozen.

Handles—As the demand for axes decreases so does that for handles. The market is steady, and prices continue unchanged. We quote the following prices: Axe handles, No. 3, $1.25; No. 2, $1.50; No. 1, $1.90 a dozen; adze handles, 34 inch, $2.20 a dozen; pick handles, No. 2, $1.70; No. 3, $1.50 a dozen.

Sewing Machines—Trade this Spring, like other Springs, is good. Sales are in advance of former years. No change is quoted in the price list. We quote: Hand sewing machines, $11 each net; complete machines with stand, $18 and up, according to quality.

Lanterns—Trade has become quiet again. Wholesale dealers are not anxious to book orders, as they anticipate an advance before the brisk trade begins again next Fall. Prices remain the same. Our quotations are as follows: Cold Blast, $4.50; No. 0 Safety, $3.50.

Barb Wire—Orders still continue to be shipped forward by the manufacturers. Trade continues good with an excellent demand. The market is steady. Our quotations are as follows: $2.75 for 100 lbs. f.o.b. Montreal; $2.37 1-2 f.o.b. Cleveland. Carlots of 15 tons, $2.25 f.o.b. Cleveland.

Fence Staples—As fencing is expected to be carried on very extensively among the agriculturists of the Northwest, the demand for fence staples in that part of the Dominion is good. The demand in other parts is only fair. We quote; $2.65 per 100 lbs. keg, for bright, and $3 for galvanized; 25 to 50 lb packages 25c. extra.

Rivets and Burrs—Trade has weakened considerably during the past week, and the demand at present is only fair. The following discounts are being quoted: Best iron rivets, section, carriage and wagon box, black rivets, tinned do., copper rivets and tin swede rivets, 60, 10 and 10 per cent.; swede iron burrs are quoted at 60 and 10 and 10 per cent. off new lists; copper rivets with the usual proportion of burrs, 45 per cent. off; and coppered iron rivets and burrs in 5 lb. carton boxes at 60 and 10 and 10 per cent.; copper burrs alone, 30 and 10 per cent., subject to usual charge for half-pound boxes.

Screws—A good demand is prevalent for screws. The market is steady with an unchanged price list. The market is firm. We quote: Round head, bright, 82 1-2 per cent.; flat head, bright, 87 1-2 per cent.; brass, round head, 75 per cent.; brass, flat head, 80 per cent.

Bolts and Nuts—Although no change has occurred in the price list, the market is firm. It is expected that an advance will take place shortly in sympathy with the recent advance on the American market.

Wire Nails—The strong demand of the past few weeks still continues unabated. Prices are firmer, but no advance is anticipated. Our quotations are: $2.25 a keg f.o.b. Montreal.

Cut Nails—Cut nails have a fair demand only. The market, although slightly quiet, is not expected to weaken on acount of the high price of iron. Prices remain the same, namely, at $2.20 a keg f.o.b. Montreal.

Horseshoes—Orders have not been as frequent during the past few weeks, and it is supposed that most users have completed purchasing their stock. We quote the following: P. B. new pattern base price, $3.50 per hundred lbs.; M. R. M. Company, latest improved pattern, iron shoes, light and medium pattern, No. 2 and larger, $3.65; No. 1 and smaller, $3.90; snow pattern, No. 2 and larger, $3.90; No. 1 and smaller, $4.15; light steel shoes No. 2 and larger, $3.80; No. 1 and smaller, $4.05; featherweight, all sizes, 0 to 4, $5.35; toe weight, all sizes, 1 to 4, $6.60. Packing—Up to three sizes in a keg, 10c. per 100 lbs. More than three sizes, 25c.

Horsenails—The market for horsenails is also quiet. Shipments have all gone forward, and no change in conditions is expected for some time.

Sporting Goods—Orders are arriving more frequently. The majority of orders call for future shipment. There is some probability of a change in price in firearms in the near future. Our quotations are as follows: American centre fire cartridges, list net: sporting and military, 10 per cent. advance on list; primers, $2.05 per thousand; American loaded shells, 20 per cent. discount; B. B. caps, $2 per thousand; C. B. caps, $2.60 per thousand; standard shot, $6.50 per hundred lbs.; chilled, $7 per hundred lbs.; buck and steel, $7.50 per hundred lbs.; ball, $8 per hundred lbs. We quote discounts 15 per cent. on shot f.o.b. Montreal, Toronto, Hamilton, London, St. John, and Halifax.

Building Paper—The demand for building paper still continues to be good. The market, although firm, will not warrant any change.

Cordage—Manilla rope of the smaller sizes and rope heavy enough for vessel purposes have each a good demand. Orders for binder twine, which have been booked for some time, are now beginning to go forward. Trade has a bright appearance, and the outlook points to good results.

Cement and Fire Brick—Locally the trade has brightened to a considerable extent, but outside the trade is still normal. Great preparations are being made for some large contract work to take place during the coming Summer, and every prospect points to a banner year. Trade in fire bricks is quiet, and no change is expected for some time. Our quotations are: English cement, $2 to $2.10; Belgium, $1.70 to $2.10 per barrel, ex store, and American, $2.15 to $2.25 ex cars; Canadian Portland, $1.90 to $2. Firebrick, English and Scotch, $18 to $22; American, $30 to $35.

Coil Chain—Trade in chain is better. The demand is good, and prices remain firm. We quote: 5-16 inch, $4.25 3-8 inch, $3.75; 7-16 inch, $3.55; 1-2 inch, $3.35; 9.16 inch, $3 .30; 5-8 inch, $3.20; 3-4 inch, $3.05; 7-8 inch, $3; 1 inch, $2.95.

Green Wire Cloth—The demand continues to be good. We quote the following: Per hundred square feet, $1.50.

Poultry Netting—Trade continues to be steady. No change is noted in the price list. Discounts for two-inch nineteen gauge standard, extras at 60 and 5 per cent.; for two-inch sixteen

PORTLAND CEMENT

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BRAND
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Made from carefully selected Lake Superior Ores, with Connellsville Coke as Fuel, "Midland" will rival in quality and grading the very best of the imported brands.

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Get our prices for
GALVANIZED FLAT SHEETS
THE "VANDA" BRAND
For all purposes requiring the best quality.
It is "deadflat," well galvanized, true to gauge and specially soft for working-up. We guarantee every sheet bearing our brand.

C.F. JACKSON & CO., Limited
Wholesale Merchants
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Direct Importers of:
Metals of every description, Wire Rope, Portland Cements, Firebricks, Ore Sacks, Grain Bags, etc, etc.

gauge the discounts are 55 and 5 per cent.

Spring Hinges — The demand for spring hinges continues to be good. Prices continue unchanged. We quote: No. 5, $7.25 per gross; No. 19, $18 per gross; No. 20, $18.80 per gross; No. 120, $20 per gross; No. 51, $9.25; No. 50, $27.50.

Ontario Hardware Markets.

Office of HARDWARE AND METAL,
10 Front street east,
Toronto, April 14, 1905.

A VERY rushing business is reported in all lines of builders' hardware as well as in such lines of Spring goods as spades, shovels, rakes and hoes, which are being asked for largely by local dealers whose stocks are low in these lines. The trade in heavy goods is practically over and from now on business booked by the jobbers will largely be of a sorting nature.

Fishing tackle is now the chief item of interest in the sporting goods department, and jobbers report orders as being very liberal. A good season is anticipated. The nice weather of the past few weeks has brought out bicycles in large numbers, and the demand for tires and repairs is very good.

LAWN MOWERS.—Orders are being actively placed, the early Spring having given an impetus to the early demand.

SPORTING GOODS.—Fishing tackle and sporting goods are in active demand. Guns and ammunition are not so seasonable.

WASHING MACHINES.—Spring has brought a very strong demand for these goods, and in all sections the demand is increasing.

CHAIN.—Lumbermen's chains are lessening in demand. Chains for plows are in demand amongst farmers. Our quotations are: ¼ inch, $6.50; 5-16 inch, $4.45; ⅜ inch, $3.85; 7-16 inch, $3.70; ½ inch, $3.55; 9-16 inch, $3.45; ⅝ inch, $3.35; ¾ inch, $3.25.

STEP LADDERS.—A fair business is reported. We quote at 10c. per foot for 3 to 6 feet, and 11c. per foot for 7 to 10 feet ladders.

EXTENSION LADDERS.—The demand is increasing. Waggoner, 40 per cent. off list.

GALVANIZED WIRE. — Prices remain firm and trade continues active. Quotations are: $2.37½ f.o.b. Cleveland.

COILED SPRING WIRE.—Prices remain stationary, the demand being still active.

BARB WIRE.—The demand for barb wire is very strong. Farmers are ordering from local dealers in fair quantity.

WIRE NAILS.—Demand is very active, prices being unchanged. Nominal quotations are $2.25 f.o.b. Toronto.

CUT NAILS.—An increasing demand is reported. Prices remain firm. Quotations are $2.40 per keg f.o.b. Toronto.

HORSESHOES.—The demand continues quite active. We quote: "P. B." base, $3.65; "M.R.M. Co., latest improved pattern" are: Iron shoes, light and medium pattern, No. 2 and larger, $3.80; No. 1 and smaller, $4.05; snow No. 2 and larger, $4.05; No. 1 and smaller, $4.30; light steel shoes, No. 2 and larger, $3.95; No. 1 and smaller, $4.20; featherweight, all sizes, 0 to 4, $5.50; toe weight, all sizes, 1 to 4, $6.75. If shipped from factory 15c less.

Bar Steel

Cold Rolled
Reeled Machinery
and Iron Finish

From stock or for import.
Prices right.

A. C. LESLIE & CO.
MONTREAL.



Enterprising Hardwaremen
handle our
ANTI-FREEZING PUMPS.

They know that the sale of a good Pump brings about the sale of many other things from satisfied customers.

Do you handle our PUMPS?

Write for catalogue and prices.

The R. McDougall Co., Limited
GALT, ONTARIO.

BAINES & PECKOVER
TORONTO.
Ontario Agents for
B. K. MORTON & CO.'S
"ALPHA"
HIGH SPEED STEEL
AND
Crucible Cast Steel
Large stock on hand. Send for Stock List

NOVA SCOTIA STEEL & COAL CO., Limited
NEW GLASGOW, N.S.
Manufacturers of
Ferrona Pig Iron
And SIEMENS-MARTIN
OPEN HEARTH STEEL

HORSENAILS.—There is a very good demand, and prices remain unaltered.

SCREWS.—The demand continues strong with no change in quotations.

RIVETS AND BURRS.—Trade continues active, prices remaining as before.

BOLTS AND NUTS.—The strong demand continues with all manufacturers busy. Prices are unchanged.

WOODENWARE.—All lines are moving well, and the Spring has brought a greater demand for all lines.

CORDAGE.—Demand continues to increase as the Summer season approaches. Quotations continue as follows: Binder twine, Blue Ribbon, 12½c; Red Cap, 11½c; Tiger, 10½c; and Standard, 9½c; manila, 14½c; British manila, 11c; sisal, 10½c; double lathyarn, 10½c; single lathyarn, 10c; sashcord, "Hercules," 30 to 32c; "Star," 36 to 38c; cotton twine, 3-ply, 24c; 4-ply, 29c; calking cotton, 16½ to 17c; cotton waste, colored, 6½c; white, 11 to 13c.

CEMENT.—Spring business is increasing. Builders are ordering in fair quantity, taking advantage of the present low prices. We still quote: For carload orders f.o.b. Toronto, Canadian Portland, $1.70 to $1.80; American Portland, $1.70 to $1.80. For small orders, ex warehouse: Canadian Portland, $2 to $2.10; American Portland, $2 to $2.10.

FIREBRICK.—A fair demand is reported, the opening of the building season having increased the volume of business. Stocks on hand are very light. We quote: English and Scotch firebrick, 30 to 35c; American, low-grade, 25 to 30c; high-grade 32½ to 40c.

METAL MARKETS
AND MINING NOTES

WAR prices are now being asked for ingot metals, and, unless peace is soon declared, prices are likely to take a marked advance. Tin is stiffening, and for all metals a very active demand is reported. The continuation of the war in the Far East is effecting the price of lead, and, although the price has been continually fluctuating, still the range of fluctuations is higher than has been for some time. Probably the best reason why lead has not advanced before to-day is the fact that the output has greatly increased during the past year. The condition of the pig iron market still remains unchanged. The market in general has a bright appearance, and on every hand prices are expected to remain firm.

Canadian rolling mills are all very busy and are sold up in some lines. Orders for delivery in August and September are being booked and no better arrangements can be secured.

Quebec Metal Markets.

Office of HARDWARE AND METAL,
232 McGill Street,
Montreal, April 14, 1905

PIG IRON.—Canadian pig iron still controls the local market to a considerable extent. No change is noted in the price list, although prices are all firm. We quote the following:

"Disc," No. 1	$16.50	delivered Montreal.
"Dom.," No. 1	17.50	" "
Usual difference in price for lower grades.		
Ferrona No. 1	$18 00	delivered Montreal.
" No. 2	17.50	" "
" No. 3	16 50	" "
" No. 4	16.00	" "
Londonderry	$18.50 to $19.00	" "
Glengarnock	20.00	" "
Gartsherrie	19.25	" "
Carnbroe	18.50	" "
Carron No. 1	20.00	" "
" (special)	19.00	" "
Ayresome No. 1	18.50	" "
" No. 3	18.00	" "
Summerlee	20.00	" "
Clarence No. 1	18.00	" "
" No. 3	17.50	" "
No. Cleveland	18.00	" "

BAR IRON.—Trade on this market continues unchanged. We quote: Merchant bar, $1.80; horse-shoe iron, $2.02½; forged iron, $2.05; best refined iron, $2.20 net cash thirty days.

TOOL STEEL.—The demand continues to be fair. Prices continue unchanged. We quote as follows: Colonial and Black Diamond, 8c to 9c; Sanderson's, 8c to 45c, according to grade; Jessop's, 13c; Jonas & Clover's, 10c to 20c; "Air Hardening," 65c per lb.; Conqueror, 7½c; Conqueror High Speed steel, 60c.

MERCHANT STEEL. — Prices have



Dealers

Throw your line among Fishermen, and you'll get a strike—with a rush for the goods—if it's the general line of

Pflueger's Fine Fishing Tackle

made only by the

Enterprise Manufacturing Co.

25 years of experience, combined with the largest manufacturing facilities in this country, enable us to produce a superior line of fishing tackle that fishermen insist on having.

PFLUEGER'S PATENTED "REVERSIBLE HINGE" INSURES FREE SPINNING AND PREVENTS BENDING OR BREAKING

Hooks, Flies, Trolls, Spinners, Phantoms, Reels, Furnished Lines, Everything in Fishing Tackle, packed for effective display.

Best Selling Line You Can Carry.

NOTICE—Free to any dealer in sporting goods, sent express prepaid, 155 page illustrated catalogue, No. F23, metal fish sign, and window transparency in eight color lithograph.

The Enterprise Manufacturing Co.,

AKRON, OHIO, U. S. A.

Butler's

Famous Cutlery

AND

Electro-plate.

Sole Makers of Butler's "KEEN" Razors, the "Cavendish" Brand of Table Knives, Carvers, and Plate (Regd.).

HIGHEST AWARDS. SPECIAL MENTION.

GEORGE BUTLER & CO.'S

London Showroom:

62 HOLBORN VIADUCT, E.C.

(Over Snow Hill Station).

Manufactory: Trinity Works,

SHEFFIELD, ENGLAND.

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become firmer. One or two of the smaller houses are quoting higher prices than those quoted below. Present indications point to an advance. Our quotations are: Sleighshoes, $1.97½; tire, $2.07½; spring, $2.75; toecalk, $2.62½; machinery, iron finish, $2.07½; reeled machinery steel, $2.75; mild, $1.97½ and upwards; rivet, $1.97½ and upwards; net cash thirty days.

COLD ROLLED SHAFTING.—Conditions of trade continue unchanged we quote: Cold rolled shafting, ¾ inch to 17-16, $3.65 per 100 lbs.; inch and a half to 3 inch, $3.50 per 100 lbs.

CANADA PLATES.—The conditions of this market remain the same. Orders arriving call for immediate shipment. Our quotations are as follows: 52s, $2.45; 60s, $2.50; 75s, $2.55; full polished, $3.60; galvanized, 52s, $3.90 to $4; 60s, $4.15 to $4.25.

BLACK SHEETS. — No change is noted on this market. Prices are firm, but no advance is anticipated. We quote the following prices: 28 gauge, $2.15; 26 gauge, $2.10; 22-24 gauge, $2.05; 19-20 gauge, $2.20; 8-10 gauge, $2.30.

GALVANIZED IRON. — Galvanized iron still has a good demand from the tinsmiths and hardware merchants. Prices continue firm and some houses talk of an advance, but the general impression is that prices will remain firm and unchanged for some time. We quote the following prices: Queen's Head, 28 gauge, $4.15; 26 gauge, $3.90; 22 to 24 gauge, $3.65; 16 to 20 gauge, $3.55; Apollo, 28 gauge, $4; 26 gauge, $3.75; 22 to 24 gauge, $3.75; 16 to 20 gauge, $3.40; Fleur-de-Lis, 28 gauge, $4; 26 gauge, $3.75; 22 to 24 gauge, $3.50; 16 to 20 gauge, $3.40; Comet, 28 gauge, $3.95; 26 gauge, $3.70; 22 to 24 gauge, $3.45; 16 to 20 gauge, $3.40, Bell brand, 28 gauge, $4; Gorbal's "Best Best," 28 gauge, $4.15; "Windmill Best," 28 gauge, $3.95; Sword and Torch, 28 gauge, $4.05, in less than case lots, 25c extra.

ANTIMONY.—Antimony continues to be firm. Our quotations are: 9½c.

SHEET ZINC. — There is some discussion of an advance in the price of sheet zinc, as ingot zinc has a tendency to become firmer, but at present nothing definite has been accomplished. It is the opinion of the prominent houses in the local market that prices will not change for some time. We quote the following: Case lots, $7; small lots, $7.25.

TIN PLATES. — The demand for tin plates continues to be good. Large orders have been received from the can manufacturers during the past few weeks. The market is steady and prices remain unchanged. Our quotations are: Cokes, $3.75; charcoal, $4.

INGOT TIN.—Ingot tin has become very firm. No change has occurred on the price list, but all orders received bring as high as 34c, and it is expected that an advance will occur shortly. The present price ranges from 33½c to 34c.

INGOT COPPER. — This market continues to be very firm. It is impossible to obtain concessions at the prices quoted below. We quote: 16¼c. and 16½c.

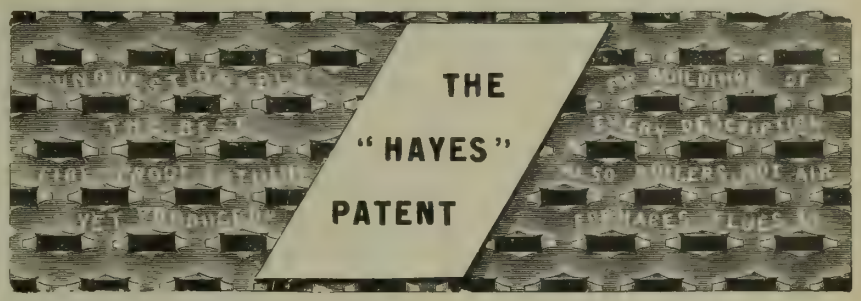
INGOT ZINC.—Zinc has taken an upward tendency, and there is a strong indication at present of an advance in price. We quote the following: 6¾c. to 7c.

PIG LEAD. — Pig lead has become firmer. It is expected that prices will advance slightly during the next few days. Our quotations are as follows: From $3.50 to $3.60. No concessions being obtainable.

BOILER TUBES.—There is no change on this market. The market is steady. Prices are firm, and the demand is good. Our quotations are as follows: British and American tube 1½ inch 8 c. 2 inch, 8½c; 2½ inch, 10c; 3 inch, 12½c; 3½ inch, 16c; 4 inch, 20c; 5 inch, 45c. Price per foot net.

SCRAP METAL AND OLD MATERIALS.—No great change has occurred on this market during the past week, and it is generally believed that the market shall remain featureless till the opening of navigation, when larger supplies shall arrive, which will give the market an impetus. It is reported that the English market is easier. During the week old rubbers have declined one-quarter cent per pound. Lead has declined one-quarter cent per pound, while zinc has advanced one-quarter cent per pound. With the exception of old rubbers, everything has a good demand. We quote as follows: Heavy copper and wire, 12¾c.; light copper, 11½c.; heavy red brass, 10½c.; yellow brass, 8½c.; light brass, 6c.; lead, 2½c.; zinc, 3½c.; machinery cast scrap, $14; wrought scrap, $14; stove plate scrap, $11; No. 1 country rags, 75c. to 90c. per hundred lbs.; old rubbers, 5 to 5¼c.

METAL LATH



Requires less mortar and 90 per cent. less labor than the inferior varieties that have been stretched until they have little strength left.

The "Hayes" is rigid. It makes a perfect job.

It costs less when applied and plastered than any other. We make it.

You can make money selling it.

THE METALLIC ROOFING CO., LIMITED
TORONTO

Ontario Metal Markets.

Office of HARDWARE AND METAL,
10 Front street east
Toronto, April 14, 1905.

PIG IRON—An advance has been made in prices quoted owing to the strong tone of the market. We quote:

Midd'sboro, f.o.b. Toronto	$21 00	$21 50
Hamilton, No 1 at furnace	18 00	18 50
" No 2, "	17 50	18 00
Gilland No 1, "		18 50
" No 2, "		18 00
Basinor, at furnace		31 00
Londonderry, at furnace	16 50 to	17 00

BAR IRON.—The demand is very active, with prices stiffening. Quotations continue as follows: $1.90 f.o.b. Toronto, with discount of 2 per cent.; for extras as cut to length, while rolling, 2 feet and over, 10c per 100 lbs.; 1 foot and under 2 feet, 15c; under 1 foot, 20c; over 20 feet, by special agreement according to length and size.

TIN.—The market is extremely strong and an advance is noted. We quote from 33 to 34c. per pound.

GALVANIZED SHEETS. — Demand continues active, with quotations unaltered.

TIN PLATES.—The market continues very active and prices firm.

CANADA PLATES.—Conditions are unchanged. The demand is less active, with prices steady.

BRASS. — An active demand exists and prices continue firm. Discounts are 10 per cent.

LEAD.—The market is strong and there is a good business doing. There is no change in prices. We quote: Pig lead, $3.80 per 100 lbs.; and bar lead, $4.80 per 100 lbs.

ZINC SPELTER.—Demand continues active, with short supply available. Quotations are as follows: 7c per lb. for foreign and 5½ to 5¾c per lb. for domestic.

COPPER.—The demand for copper ingots is strong and active. Prices remain as follows: Ingot copper, 16¼c per lb. and sheet copper, 21c per lb.

ANTIMONY.—More movement is reported. No changes are noted in quotations.

OLD MATERIAL.—Metals are active. Small shipments are being received from the country districts. We quote: Heavy copper and wire, 13c per lb.; light copper, 11½c per lb.; heavy red brass, 10½c per lb.; heavy yellow brass, 9c per lb.; light brass, 7c per lb.; tea lead, $2.40 per 100 lbs.; heavy lead, $2.60 per 100 lbs.; scrap zinc, 4c per lb.; iron, No. 1 wrought, $10 to $11; No. 2 wrought, $3 to $5; machinery cast scrap, $14; stove plate, $10; malleable and steel, $5; old rubbers, 5c per lb.; country mixed rags, 65c per 100 lbs.

COAL.—Trade in coal has fallen off considerably, although some orders are being booked at the lower prices now in force. Our quotations are as follows: Anthracite in cars at bridges: Grate, $5 per gross ton; egg, stove and nut, $5.25 per gross ton; pea, $3 per gross ton.

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Granite Wood Fibre Plaster

is

FIRE Proof, WATER Proof and GERM Proof, Warmer in Winter, Cooler in Summer,

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Pops, Chips or Cracks,

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Never Comes Off.

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For Prices and Information in detail address

G. F. STEPHENS & CO., Limited

WINNIPEG, CANADA.

HARDWARE CONDITIONS IN MANITOBA.

(Market quotations corrected by telegraph up till 12 a.m. Friday, April 14, 1905.)

Office of HARDWARE AND METAL
Room 405 McIntyre Block,
Winnipeg, Man.

BUILDING operations in Winnipeg are in full swing. Permits taken out for the first three months of the year show a slight decline as compared with 1904, but the permits to be issued during the next fortnight for several large business blocks which are projected will bring this year's figures considerably in advance of last year.

* * *

With so much building on hand and projected in city and country the heating and plumbing men have every reason to expect a busy season. The furnace is about the last thing considered in many cases, but already large orders are reported.

* * *

Pease, Walden Co., for example, are busy thus early in the season. This year they are pushing more extensively than ever a line of side-wall patterns in registers, and their efforts are meeting with good success.

* * *

Spring business is still very brisk. Paints, oils and glass are moving in large quantities, and all lines of Spring hardware are in brisk demand. Prices are steady, and there are no changes of importance.

* * *

ScreenWire Cloth—In brisk demand for Spring trade. Price is $1.55 per 100 square feet.

* * *

Poultry Netting—There is a good demand at present. For the 2-inch mesh in No. 19 gauge wire prices are as follows:

24-inch roll, per roll	$1 20
30 " "	1 50
36 " "	1 80
48 " "	2 40
60 " "	3 00
72 " "	3 60

Wire—There has been no change in price. Business is brisk. We quote as follows:

Barbed wire, 100 lb.	$2 85
Plain galvanized....6 to 8	3 39
" 9 2 50	2 90
Plain galvanized....10	3 50
" 12	3 10
" 13	3 20
" 14	3 90
" 15	4 45
" 16	4 60
Plain twist	2 85
Staples	3 35
Oiled annealed wire....10	2 96
" 11	3 02
" 12	3 10
" 13	3 20
" 14	3 30
" 15	3 45

Annealed wires (unoiled) 10c. less.

Horseshoes—Trade is of normal proportions. Prices are steady. We quote:

Horseshoes, iron, No. 0 to No 1	$4 55
No. 2 and larger	4 30
Snow shoes, No. 0 to No. 1	4 80
No. 2 and larger	4 55
Steel, No. 0 to No. 1	4 70
No. 2 and larger	4 45

Horsenails—Discounts and list price are unchanged. We quote:

Horsenails, No. 4—1¾ in., list price	0 48
" " 5—2 " "	0 32
" " 6—2¼ " "	0 28
" " 7—2¼ " "	0 24
" " 8—2¾ " "	0 22
" " 9—2½ " "	0 20
" " 10—2¾ " "	0 20
" " 11—2¾ " "	0 20
" " 12—2⅞ " "	0 20
" " 14—3½ " "	0 20

Discounts are as follows: " C " brand 40, 10 and 7 1-2 per cent., " M " brand and other brands 55 and 60 per cent. Add 15c. per box.

Wire and Cut Nails—There is a very brisk demand and considerable competition in the wire nail trade. We quote prices as before:

Cut Nails—		Wire Nails—	
2d 1 in.	$4 00	1 in.	4 00
3d Fin. 1⅛ in.	4 00	1⅛ in.	4 00
3d 1¼ in.	3 65	1¼ "	3 65
4d 1½ in.	3 40	1½ "	3 40
5d 1¾ in.	3 40	1¾ "	3 40
6d 2 in.	3 30	2 "	3 30
8d 2½ in.	3 15	2¼ "	3 15
10d 3 in.	3 10	3 "	3 10
20d 4 in.	3 05	3¼ "	3 05
30d 4½ in.	3 00	4 "	3 05
40d 5 in.	3 00	4¼ "	3 00
50d 5½ in.	3 00	5 "	3 00
60d 6 in.	3 00	5¼ "	3 00
		6 "	3 00

Screws—Trade is very brisk and discounts are unchanged. We quote:

Screws, flat head, iron, bright	85 and 10 p.c.
Round " "	80 p.c.
Flat " brass	75 and 10 p.c.
Round " "	70 and 10 p.c.
Coach	70 p.c.

Nuts and Bolts—We quote following unchanged discounts:

Bolts, carriage, ⅜ or smaller	60 and 5 p.c.
" 7-16 and up	55 p.c.
Bolts, machine, ⅜ and under	55 and 5 p.c.
" 7-16 and over	55 p.c.
Bolts, tire	65 p.c.
Bolt ends	55 p.c.
Sleigh shoe bolts	65 and 10 p.c.
Machine screws	70 p.c.
Plough bolts	55 p.c.
Square nuts, case lots	3c. discount.
" " small lots	2¼c "
Hex " case lots	3c. "
" " smaller lots	2½c. "

Rivets—Discounts continue as follows:

Rivets, iron	60 and 10 p.c.
Copper, No. 8	29½
" No. 12	33

Coil Chain—We quote again as follows:

Coil chain, 3-16 inch	9.25
" ¼ inch	7.25
" 5-16 inch	5.20
" ⅜ inch	4.60
" 7-16 inch	4.45
" ½ inch	4.30
" ⅝ inch	4.10
" ¾ inch	4.30

Shovels—Discounts on spades and shovels continue 40 and 5 per cent.

Harvest Tools—Discount 60 per cent.

Axe Handles—No change in price. We quote again as follows:

Axe handles, turned, s.g. hickory, doz.	$3 15
No. 1	1 90
No. 2	1 60
Octagon extra	2 30
No. 1	1 60

Axes—There is not much doing. We quote again as follows:

Axes, chopping	$ 6 75 to 12 00
" double bitts	12 00 to 18 00

Files—We again quote as follows:

" Arcade "	70 and 10 p.c.
" Black Diamond "	60 p.c.
" Nicholson's "	62½ p.c.

Building Paper—All grades of building paper are in brisk demand. We quote:

Anchor, plain	65c
" tarred	70c.
Pure fibre, plain	67½c.
" tarred	80c.

Ammunition, Etc.—We again quote:

Ammunition, cartridges, Dominion R.F.	50 and 5 p.c.
Dominion, C.F., pistol	30 p.c.
" military	15 p.c.
Ammunition, cartridges, American R.F.	33⅓ p.c.
C.F. pistol	5 p.c.
C.F. military	10 p.c. advance.
Loaded shells:	
Eley's and Kynoch's soft, 12 gauge	
black	15 00
chilled, 12 gauge	16 00
soft, 10 gauge	18 00
chilled, 10 gauge	19 00
Shot, Ordinary, per 100 lb	6 25
Chilled	6 75
Powder, F.F., keg, Hamilton	4 75
F.F.G., Dupont's	5 00

Tinware, Etc.—We quote again as follows:

Tinware, pressed, retinned	70 and 10 p.c.
" " plain	75 and 2½ p.c.
" pieced	30 p.c.
Japanned ware	37½ p.c.
Enamelled ware, white	45 p.c.
" Famous	50 p.c
" Imperial	50 and 10 p.c.

Cordage—Prices are steady. We quote:

Rope, sisal, 7-16 and larger, basis	11 25
Manila, 7-16 and larger, basis	15 25
Lathyarn	11 25

Solder—The price is still 21c. per lb.

Bluestone—There is a very brisk demand this week. There has been no change from the price set the first of the year, viz., $5.75 per cwt.

Iron and Steel—Prices are steady. We quote:

Bar iron (basis)	2 50
Swedish iron (basis)	4 75
Sleigh shoe steel	2 65
Spring steel	3 00
Machinery steel	3 50
Tool steel, Black Diamond, 100 lb	9 50
Jessop	13 00

Black Sheets—No change in price. Quotations are:

Black Sheet 8, 10 to 16 gauge, 100 lb	3 50
18 to 22 gauge	3 75
24 gauge	3 90
26 gauge	4 00
28 gauge	4 10

Galvanized Iron—No change in price since last issue. We quote again as follows:

Apollo, 16 gauge	4 00
18 and 20 gauge	4 00
22 and 24 gauge	4 25
26 gauge	4 25
28 gauge	4 50
30 gauge or 10½ oz	4 75
Queen's Head, 24 gauge	4 25
26 gauge	4 50
28 "	4 75

Tin Plates—Prices are maintained at the reduction noted a fortnight ago. We quote:

Tinplate, IC charcoal, 20 x 28, box	9 50
" IX "	11 50
" IXX "	13 50

NICHOLSON FILE CO, (Dominion Works) **Port Hope, Ont.**

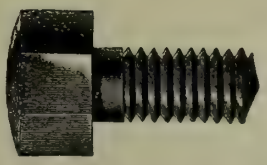
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WALTER GROSE, Selling Agent, Montreal



THE JOHN MORROW MACHINE SCREW COMPANY, Limited

Manufacturers of

Set and Cap Screws, Special Milled Work, Engine Studs Etc. Cold Punched Nuts of every variety of finish.

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FOR **STORAGE** IN **WINNIPEG**

Handling and reshipping of goods. Brick warehouse with track facilities

MACKENZIE BROS. WRITE 244 PRINCESS ST. OR P.O. BOX 579 **WINNIPEG.**

PURE MIXED PAINTS

are what the painter wants and will have. If you cannot supply him with them someone else will; nor can you afford to lose his trade by experimenting with something (just as good), for it cannot be had. We also have a large stock of Dry Colors, Oils, etc.

THE WINNIPEG PAINT AND GLASS CO., LIMITED
WINNIPEG, CANADA

SPRINGS

For Clocks, Phonographs, Typewriters and Steam Drills—in any quantity

CATALOG MAILED UPON APPLICATION.
SEND SAMPLES OR SPECIFICATIONS FOR PRICES.

THE WALLACE BARNES CO., - - BRISTOL, CONN.

Ingot Tin—Quoted at 35 cents.

Canada Plates—Business is active at unchanged prices. We quote:

Canada plate 18 x 21, 18 x 24	3 25
Canada plate, 20 x 28	3 50
Canada plate, full polished	4 00

Sheet Zinc—Cask lots are quoted at $8.25 per 100 lbs, and broken lots at $8.75.

Pig Lead—Quoted at $4.50 per 100

Iron Pipe—City business is exceptionally brisk. Prices are steady. We quote:

Black iron pipe, ⅛ inch		
" ¼ "		2 45
" ⅜ "		2 65
" ½ "		3 00
" ¾ "		3 80
" 1 "		5 50
" 1¼ "		7 45
" 1½ "		8 95
" 2 "		12 30

Petroleum—Prices are steady and unchanged. We quote again as follows:

Silver Star, per gal	20½c
Sunlight "	21½c
Eocene "	23½c
Pennoline "	24½c

CONDENSED OR "WANT" ADVERTISEMENTS.

YEARLY CONTRACT RATES.

100 words each insertion,	1 year		$30 00
" " "	6 months		17 00
" " "	3 months		10 00
50 " "	1 year		17 00
" " "	6 months		10 00
25 " "	1 year		10 00

FOR SALE.

A WELL established Hardware and Sporting Goods business in a Western Ontario town. For particulars apply to the Kennedy Hardware Company, Toronto. (15)

SECOND-HAND set of Tinsmith's Tools for sale, in good condition, a bargain. Geo. D. Wood & Co., Winnipeg, Man

HARDWARE businesses for sale. Located at Frank, Alberta; stock $25,000; Blairmore, Alberta, stock $7,500; Coleman, Alberta, stock $15,000. Each doing a live business with good profits and quick returns. Stores and real estate for sale or lease. Dissolution of partnership the only reason for selling. Address A. F. Grady, McLeod, Alberta, or J. Farmer, Frank, Alberta. (15)

SITUATION WANTED.

BOOKKEEPER—Young man, thoroughly competent and reliable, desires opening with good hardware, retail preferred. Box 231, Hardware and Metal, Toronto. (15)

A GRAND OPENING.

AN Eastern firm manufacturing a full line of ranges, wood cooks, heaters, warm air furnaces, and hot water boilers, are prepared to give the exclusive agency for the sale of their goods in Manitoba and the Territories as far west as Moosejaw to a reliable and progressive stove and furnace dealer, goods to be bought outright. Prices and terms right. Goods already introduced. Apply Box No. 237, Hardware and Metal, Toronto. (17)

MECHANICS WANTED.

FIRST-CLASS stove plate moulders. Steady employment and good wages. Apply direct to Enterprise Foundry Co., Sackville, N.B. (17)

YOUNG men who have had some experience at general tinsmithing to learn cornice work and erect metal ceilings. Good openings for several men who are active and quick to learn. State age and experience. Box 239, Hardware and Metal, Toronto. (18)

BUSINESS CHANCES.

THE LOCATORS — W. B. Herbert, general manager, 62 and 63 Merchants' Bank Building, Winnipeg, Man.

HARDWARE store, Manitoba—Stock fourteen hundred, first-class, no competition. Price 100 cents on dollar; half cash. Locators, Winnipeg.

HARDWARE store, on Prince Albert branch, Saskatchewan Stock thirty-four hundred; annual turnover twelve thousand; price 100 cents on dollar. Write Locators, Winnipeg.

HARDWARE Store—Rising town in Manitoba Stock twenty-five hundred. Lowest price for all cash eighty-five cents on dollar. Write Locators, Winnipeg.

HARDWARE Store, Manitoba—Stock three thousand; half cash; owner retiring from business. Locators, Winnipeg.

HARDWARE business openings. For same in good town write Locators, Winnipeg.

LOCATORS, 62 and 63 Merchants' Bank Building, Winnipeg, Man.

Crystal Spray " ..... 23½c.
Silver Light ..... 21½c.
(In barrels f.o.b. Winnipeg.)

Paris Green—In seasonable demand. We quote:

English Paris Green—Petroleum barrels, 14 1-4c.: arsenic kegs, 14 1-2c.; 50 and 100 lb. drums, 15c.; 25 lb. drums, 15 1-2c.; 1 lb. tins, 17c.; 1-2 lb. tins, 19c.; 1 lb. cardboard boxes, 16c.; 1-2 lb. ditto, 18c. Terms 2 per cent. off for cash in 30 days; 90 days net.

Canadian Paris Green—50 lb. drums 17c., bulk 18c.; in 1-lb. packages 20 cents.

Paints and Oils—Paint and oil jobbers are experiencing a very brisk demand, and very large shipments are being made. Oil and turpentine are steady, and there are no important changes in the paint and oil list. We quote:

White lead (pure)	$5 00 to $5 50
Bladder putty, in bbls	0 02½
" " in kegs	0 02¾
Turpentine, pure in barrels	$ 0 84
Less than barrel lots	0 89
Linseed oil, raw	0 55
Boiled	0 58

Window Glass—There is a very brisk demand. Prices are very firm owing to the situation in Belgium. We quote again as follows:

16-oz. O.G., single, in 50-ft. boxes—	
16 to 25 united inches	$2.25
26 to 40 "	2.50
16-oz. O.G., single, in 100-ft. cases—	
16 to 25 united inches	4.00
26 to 40 "	4.25
41 to 50 "	4.75
51 to 60 "	5.25
61 to 70 "	5.75
21-oz. C.S., double, in 100-ft. cases—	6.30
26 to 40 united inches	7.35
41 to 50 "	8.40
51 to 60 "	9.45
61 to 70 "	10.50
71 to 80 "	11.55
81 to 85 "	12.60
86 to 90 "	14.75
91 to 95 "	17.30
6 to 100 "	

FOR SALE

1 Pair of Scales (capacity 2,000 lbs.) at a bargain.

Apply Box 238.

Hardware and Metal

10 FRONT STREET E., TORONTO.

MACHINERY WANTED.

WANTED—A second-hand engine, 30 h.p.; centre crank, 40 h.p. stationary boiler. Box 234, HARDWARE AND METAL, Toronto. (13)

MACHINERY FOR SALE.

Rates for first insertion 2c. a word, and for subsequent insertions 1c. a word.

ONE second-hand gap lathe; swings 40 in. and 26 in.; 12-ft. 6-in. bed. Address Box 748, Montreal.

ONE second-hand shafting lathe, 26-in. swing, 20-ft. bed. Address Box 748, Montreal.

Buy the Best.



HERCULES

Sash Cord.

Star Brand Cotton Rope
Star Brand Cotton Clothes Lines
Star Brand Cotton Twine

For Sale by all Wholesale Dealers.

TRADE CONDITIONS IN NEW BRUNSWICK.

Special Correspondence of HARDWARE AND METAL

St. John, N.B., April 11, 1905.

WHAT about the bicycle business this year? That is a question to which a number of hardware dealers have been giving part of their attention of late. Since the bicycling "craze" attained its height a few years ago, there has been, as is well known, a marked decrease in the demand for, and sale of, bicycles in this part of the world. In consequence of this decrease in the demand, there are some people who assert that the business is a "dead" one. This view is not, however, concurred in by all dealers. All are forced to admit that the business is not what it once was, but they will not all admit by any means that the business is "dead." Some dealers have the idea that the demand for bicycles this Summer will be brisker than usual. They believe that the pendulum which swung to one extreme and then showed clear signs of swinging to the other will be found at a medium position this year. However that may be, it is plain that the bicycle business demands push; it will not be profitable if it is not given careful attention and if wide-awake, enterprising methods are not employed in it. With these methods in use some local dealers expect pretty fair business in this line this year.

The sale of lubricating oils is a branch of the hardware trade that is fairly active at the present time. The market for these oils is, on the whole, improving somewhat and a profitable period for persons handling them seems to be pretty well assured. Prices given at present are about as follows: cylinder oil, 60c.; engine oils, 30c. and 40c.; castor, 24c., and spindle, 25c. Mention may also be made of the turpentine market. This is fairly firm now and fluctuations in price are not anticipated. For some time now the reigning price has been 89c., when purchased in large quantities, and about 93c. or 95c. when small quantities are taken. The new supply of

turpentine is expected to be on the market shortly.

Merchants who have been in the custom of expecting a good business in the sale of tin plates have, generally speaking, had opportunities so far this year of repeating the successful sales of other years. They have been hampered considerably, however, by the difficulty experienced in getting their orders filled by manufacturers and wholesalers. This has prevented them from supplying the demand, a demand which in considerable part comes from lobster men. Some merchants have not been able to supply all their customers, but pressure brought to bear on the supply houses will place the dealers in a better position in a short time.

With the closing of Spring there has naturally come a demand for carriage hardware. The demand for this kind of hardware has been fairly good in St. John, and from indications should continue so. Regarding prices, there is little of interest to note. The only price which is at all unusual is that of tire steel. The prevailing price for this article of carriage hardware is in the neighborhood of 20c.

The prices of wire fencing remain practically unchanged, though the demand is brisk. Barbed wire is selling at $2.55. The prices of the other varieties of wire fencing continue firm, and no decline is in sight at this time. It is plain that the days of wooden fences, of any and all descriptions, is rapidly passing. Wire fences are soon to reign supreme.

It is noticeable that the Belgian glass seems to be gradually slipping out of the market here. This is probably but temporary, however, being due to the continued strike. The consequence, nevertheless, is that English glass manufacturers have bigger orders.

TRADE CONDITIONS IN BRITISH COLUMBIA.

Vancouver, B.C., April 7, 1905.

THERE is apparently some definite working arrangement in hand whereby the proposed turning over of the E. & N. Railway by the Dunsmuir interests to the C.P.R. may be consummated without the intervention of the legislation which was applied for at Ottawa. It will be remembered that the question of taxation of the E. & N. land grant and property arose as soon as legislation was asked for. At present the property is exempt, but in case of a sale it would be at once taxable.

Many evidences exist that some arrangement is concluded, as the taking over of the road to all intents and purposes is going on, except in name. The proposal of the C.P.R. to extend to the northern end of the island and build a city at the port of Quatsino on the extreme northwest of the island is again to the fore. This matter has long been talked of, the argument being that with a harbor there for the Oriental steamer traffic, the Empresses could land passengers there and a rail journey to some point opposite Vancouver would give but a short ferry across the gulf to the terminus of the C.P.R. and save a full day. This is more important in freight than passenger traffic, though it has its attractions in the latter as well. But with freight, it would be possible to compete even better than under recent existing conditions, and for the handling of freight a railway the full length of the island would make it possible to run loaded trains or cars down to Nanaimo or Ladysmith and by fast steam barges transfer the loaded cars in a few hours to the mainland, whence the trip across the continent would be continued.

This would be especially attractive in the carriage of silks and teas. It is well known that the silk-carrying traffic is in the hands of the C.P.R. almost altogether, though the bulk of Japanese and Chinese raw silk goes to New York, because the time by the Canadian line is some hours, in fact nearly a whole day, shorter. There has always been keen competition for this particular trade, but the C.P.R. has managed to hold it against all comers.

Four steel bridges to be built for the Klondike Mines Railway, now being erected between Dawson and the various creeks, was awarded to the International Contract Co., of Seattle, recently, the contract is approximately $25,000.

* * *

Messrs. McLennan, McFeely & Co., Limited, one of the leading wholesale hardware houses of Vancouver, have entered into a proposal to build or buy a steamer to operate the Skeena River. At the present time the Hudson's Bay Co. is operating the only steamer on the river. Trade in that region of the province is awakening principally because of the expected advent of the G. T.P. into the Skeena River district; so the wholesale men of Vancouver do not want to be at the mercy of a competitor in seeking trade in the new north. With this venture the big hardware firm of McLennan, McFeely & Co., Limited, are only keeping up their past record for enterprise. When the Atlin, White Horse and Dawson trade sprung into meteoric existence some years ago, the firm at once seized the opportunity and placed stocks at all these points. The result was that they not only shared in the trade which was then doing, but, by being on the ground, built up a large and valuable connection, which they still hold, though trade has now so altered in its lines in the north that the firm have for several seasons discarded the plan of carrying stocks in the north, being fully as well able under present conditions to supply the trade from here and do it cheaper.

With the firm in the Skeena River venture is the big wholesale grocery house of Kelly, Douglas & Co., and the contracting firm of Ironsides, Rannie & Campbell, each of which have had experience in the north.

* * *

The oil fields of Southwest Kootenay continue to attract attention along with the fields adjacent to them in Southwestern Alberts. The difficulty in Kootenay is that there is no road, not even a wagon trail to give access. It would be necessary to build about 30 miles of road, and parties representing holders of areas of these lands are urging the claims and possibilities of the district on the British Columbia Government to have this 30 miles of road built from the Crow's Nest Pass Railway south. The large amount paid in in fees for registration of claims, and other revenue is pointed out as a reason why some recognition should be given the district. It is further asserted that an enormous and almost startling results would follow opening of transportation facilities, as many syndicates are preparing to go to work as soon as they can transport plant into the field.

The results being obtained, just across the provincial boundary in Alberta are sure to be equalled, so the statement is made by those interested. Not more than two or three miles miles across the boundary in Alberta, the Rocky Mountain Oil Co. has a refinery under erection now, and already has in place a still of 40-barrel-per-day capacity.

* * *

The hardware trade of coast cities is interested deeply in the salmon cannery season, for the orders for tinplate and other can-making supplies depend largely on the expectations of the season's "pack." The present season, or approaching season, is supposed to be the fourth year, or "year of plenty," but, discouraged by several disastrous years, the canners are not over enthusiastic. A great many canneries have on hand considerable stocks of tinplate laid in and not used in the past two or three seasons, but, of course, there is a large quantity to arrive in the next few weeks from England by the Blue Funnel steamers. Some large rail shipments are expected from the U. S. also. The northern canneries are now receiving their supplies, as the season in northern waters begins earlier than on the Fraser.

* * *

Two new bank branches in Vancouver since March 1 is the record. The Eastern Townships Bank has secured premises for its first office in the city, and the Royal Bank has announced its intention to open its third office in the city, having decided upon giving banking facilities to Mt. Pleasant, a populous and prosperous suburb, on the "hill" to the south of False Creek.

* * *

The big steam freighters of the Alfred Holt lines, the Blue Funnel and Ocean S.S. Co. lines, are month by month increasing their carryings to B.C. ports. The Pingsuey now en route for this port has 500 tons for Victoria and 1,500 tons for Vancouver. Out-bound she has all her available space spoken for, and the same is true of the next steamer to arrive, the Telemachus. The latter sailed for this port from Liverpool, via Suez, on March 5, and is due about May 6. She is 7,449 tons' capacity and the Pingsuey is 6,457 tons. These vessels, large as they are, are by no means the largest of the two lines which make regular calls in B. C. ports.

* * *

A large steam shovel, or dredge for mining purposes on one of the creeks of the Klondike is being erected at Cates' shipyard in this city. It is to be taken down and the parts numbered for shipment north ready to be sent down the River Yukon when navigation opens.

* * *

Very considerable extensions of the exhibition buildings at New Westminster are being arranged for the Dominion Exhibition this Fall. The machinery hall is to be moved back and almost doubled in size. On its present site the industrial hall, a very large building of handsome design, is to be erected, for the many manufactured articles which are to be exhibited. The space is practically all gone already, as the number of inquiries from manufacturers in all parts of Canada has been enormous, most of them asking for space to be reserved at all hazards.

PAINT, OIL AND BRUSH TRADES

The Linseed Oil Market.

THE present condition of the linseed oil market in Canada is rather exceptional. For the home trade we find no less than five mills, specially built and arranged, for crushing flaxseed and producing linseed oil, in the Province of Ontario and the City of Montreal, any two of which could produce as much oil as the country could use in any one season, provided they had the flaxseed in hand.

Surprise might be expressed at the managers of these concerns not supplying themselves at the proper season of the year. Under ordinary circumstances they might be criticised in this manner, but when the state of the market is known no surprise would be felt.

At the proper season of the year all the flaxseed grown in the Province of Ontario was secured by these crushers, and a portion of that grown in Manitoba, but owing to high prices for seed in the Chicago market, a portion of the Manitoba crop was bought by Americans, who could afford to pay fully a better price than the Canadians, on account of the fact that they could sell their oil produced from the seed in the United States market at a higher price for the wine measure gallon than the Canadian producers could secure for imperial gallon for their product.

It may be asked, "Why should not the Canadian producers of oil secure as favorable prices in Canada as the Americans can secure in the United States?" In reply to this, we have to investigate what is the state of the market in Great Britain. First, we may say that the tariff in the United States is of such a character as it prohibits the importation of linseed oil from Great Britain into their country, while the Canadian tariff being only what was originally considered very reasonable, 25 per cent.; but now, with the British preferential clause being allowed to affect the linseed oil from England, the duty is really only 16 1-3 per cent.

Further investigation would lead us to inquire whether the crushers in Great Britain can secure their supplies of seed at a price that enables them to produce linseed oil and sell in the Canadian market against our tariff, and make a profitable business.

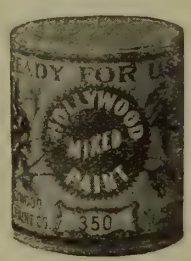
The sources of supply for the English crushers are mainly from three countries, namely: Russia, India, and South America. About one-half of the seed they use in England is produced in South America, principally from one of the republics that is being rapidly settled by a farming class of community, who seem able to produce very large quantities of flaxseed, and as the currency of that country is at a considerable discount, or gold at a premium, this tends to enable the British crusher of seed to purchase his supplies with gold at a low figure.

Another item that enters very largely into these values, is the oil cake produced by the same crusher of flaxseed, which is sold very largely in Great Britain and some portions of the continent for cattle food, and being directly in the market there, they realize the full value from this cake that the market will offer, while the Canadian crusher has to send his cake to England very largely to find a market, on which he has to pay a very considerable amount of freight; and as the weight of the cake produced from flaxseed is nearly double the weight of the oil, it will be seen at once that the British crusher has a very considerable advantage.

As our market here requires the bulk of our oil and paint trade to be done in the months of April, May, June, July, August, and September, after our harvest, the sales for linseed oil drop off until the next early Spring; consequently our crushers and the jobbing trade have to take the risk of coming in competition with British-produced oil in the Spring of the year just after the South American crop of seed comes on the market.

The British crusher, having a great demand for oil cake in the Winter and Spring months, when oil is not moving so extensively, is found selling on a contract for forward delivery at the very lowest price that the year is at all likely to see—and the present year has been no exception to this rule; consequently our producers of oil found themselves facing two facts—one was, that the Canadian seed was all exhausted, prices for seed at Chicago so high that it was impossible to produce oil from it without a very serious loss, and to get a cargo of seed from South America

(*Continued on page 50*)



What Should a Good Paint Be?

One season handling Hollywood brand will convince you that it is what it should be—

GOOD PAINT TO COVER
GOOD PAINT TO WEAR
GOOD PAINT TO SELL

What more do you want? Hollywood Paste, Ready-Mixed and Floor Paints wear on the job, not off it.

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LIMITED.

TORONTO, ONTARIO, CANADA.

P. S.—Elastilite Varnish.

"New Era" Prepared Paints

A thoroughly reliable, strictly first-class article. Made from Pure White Lead, Oxide of Zinc, Pure Linseed Oil, Turpentine and Turpentine Japan Dryers. Will cover more surface, last longer, hold its color better, stand weather changes, and gives a more brilliant finish than any other house paint made. For beauty, durability, economy and general satisfaction it is unequalled.

Put up in full Imperial Gallons, and fractions thereof.
Prices on application. Correspondence with dealers solicited.

THE STANDARD PAINT & VARNISH CO., LIMITED, - WINDSOR, ONT.

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MEMORIAL WINDOWS.

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Dennis' Flexible Steel Wire Door Mats

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DOLLARS WELL INVESTED

WILL MAKE MORE DOLLARS. The goods that a dealer knows are right, that are in demand, well advertised, and sold on their own merits, are a pretty safe investment. ***CHURCH'S COLD WATER***

ALABASTINE

is of that class which in point of merit knows no competitor. The manufacture and sale of ***ALABASTINE*** is conducted along lines that insure to any dealer investing in it quick returns for his money and a good margin of profit.

ALABASTINE is ***NOT A KALSOMINE,*** but a permanent wall-coating that hardens with age.

The season for tinting and decorating is at hand. If assortment not complete ***do business now!*** Order from jobber, or direct from

The Alabastine Co., Limited, Paris, Ont.



"Island City"

HOUSE AND FLOOR PAINTS

Dry in Eight Hours

P. D. DODS & Co., Montreal ✒ Toronto ✒ Vancouver

Take No Chances

You run no risk if you use ready-mixed Paint in which the White Lead used is—

Brandram's B.B. Genuine

BRANDRAM BROS & CO
BRANDRAM'S B. B. WHITE LEAD
REGISTERED TRADE MARK
MANUFACTURERS LONDON ENGLAND

THE WORLD'S STANDARD.

The only ready-mixed Paints made in this way are

"ANCHOR" and "ENGLISH"

Manufactured by

HENDERSON & POTTS, Limited
HALIFAX and ST. JOHN

HENDERSON & POTTS CO., LIMITED
MONTREAL and WINNIPEG

Paint and Oil Markets

Quebec.

Office of HARDWARE AND METAL,
232 McGill street.
Montreal, April 14, 1905.

SINCE the sharp advance in turpentine last week the market for this article has remained steady, both locally and at the manufacturing points, and indications now point to prices remaining steady until the end of the present month. Much, however, depends upon the interest shown by large purchasers at the manufacturing points. Linseed oil has advanced one cent per gallon in sympathy with the English market. There has been a good movement in ready-mixed paints since the first of April, and reports now state that all the local wholesale houses have forwarded the majority of their orders which were held over awaiting cheaper freight rates. The open weather has permitted a great deal of outside work to be in progress, and therefore the demand is strong in all lines, and especially in white lead. At present there is a fair demand on the United States market for white lead, and this will tend to keep the prices on our market steady. Machinists and manufacturers of machinery are causing a good demand for shellac, and although the arrivals a few weeks ago were very heavy they were quickly absorbed, and to-day there is only a fair amount of stock on the market.

Canadian Paris Green—There is no change in the price list. We quote as follows: Barrels, 15 1-4c.; arsenic kegs, 15c.; 50 and 100 lb. drums, 16c.; 25 lb. drums, 16 1-2c.; one pound packages, 17c.; half-pound packages, 19c.; one pound tins, 18c. Terms 2 per cent. discount for cash in 30 days or 90 days net.

English Paris Green—Pure English Paris green, petroleum barrels, 15 1-4c.; arsenic kegs, 15 1-2c.; 50 and 100 lb. drums, 16c.; 25 lb. drums, 16 1-2c.; one pound paper boxes, 17c.; one pound tins, 18c.; one-half pound paper boxes, 19c.; one-half pound tins, 20c. Terms, 2 per cent. off thirty days, or ninety days net from date of shipment.

Turpentine—Single barrels 87c. per gallon; two to four barrels, 86c. per gallon. For smaller quantities than barrels, 5c. extra per barrel is charged. Standar. gallon is 8.40 lbs. f.o.b. point of shipment, net 30 days.

Linseed Oil—Raw, one to four barrels, 46c.; five to nine barrels, 45c. Boiled, one to four barrels, 49c.; five to nine barrels, 48c., f.o.b. Montreal. Net thirty days.

Ground White Lead — Best brands Government standards, $4.70 to $4.85; No. 1, $4.45 to $4.60; No. 2, $4.20 to $4.35; No. 3, $3.87 1-2 to $3.97 1-2; No. 4, $3.50 to $3.60, all f.o.b. Montreal.

Dry White Zinc—Pure dry in casks, 7c.; in 100 lb. kegs, 7 1-2c.; No. 1 zinc, in casks, 6c.; in 100 lb kegs, 6 1-2c.

White Zinc (ground in oil)—Pure, 25 lb. iron, 7 1-2 to 10c.; No. 1, 6 1-4c.; No. 2, 5 1-4c.

Putty—Pure linseed oil 175 to 185. Bulk in barrels, $1.50; in 25 lb. irons, $1.80; in tins, $1.90; bladdered putty in barrels, $1.75.

Orange Mineral—Casks, 7 1-4c.; 100 lb. kegs, 7 1-2c.; smaller quantities, 8 1-2c.

Red Lead—Genuine red lead in casks, $4.50 in 100 lb. kegs, $4.75; in less quantities at the rate of $5.75 per 100 lbs.; No. 1 red lead, casks, $4.25; kegs, $4.75, and smaller quantities, $5.50.

Shellac Varnish—Pure white, $2.60 to $2.80; pure orange, $2.55 to $2.65; No. 1 orange, $2.30 to $2.45.

Mixed Paints—$1.20 to $1.40 per gallon.

Castor Oil—8 3-4c. to 9 1-4c. in wholesale lots, and 1-2c. additional for small lots.

Litharge—Ground, in casks, 5c.; in less quantities, 5 3-4c.; flake litharge, casks, $5.50; smaller quantities, $6 per 100 lbs.

Ontario.

Office of HARDWARE AND METAL,
10 Front Street East.
Toronto, April 14, 1905.

TURPENTINE is still the strong feature of the oil markets, the prediction made last week that the big jump in prices would hold and a further increase be made having been verified. The ruling price is now 90 cents in barrel lots, with 95 cents quoted in five and ten-gallon lots, no jobbers being willing to sell in larger quantities. No new turpentine has been put on the market as yet, although another week should see shipments being received, a slight advance being possible in the meantime. There is a fair quantity of old stock in the hands of leading interests at Savannah, but they are selling at their own figure in such small quantities as have to be purchased.

Linseed oil shows a further advance of one cent in sympathy with the rise in prices in England. White lead remains firm at 4 3-4 cents. Business in mixed paints and varnishes is very active, and from every standpoint the market is strong.

White Lead—Ex-Toronto, pure white lead, $4.75; No. 1, $4.37 1-2; No. 2 $4; No. 3, $3.62 1-2; No. 4, $3.35 in packages of 25 lbs and upwards; 1-2c. per lb. extra will be charged for 12 1-2 lb packages; genuine dry white lead, in casks, $4.25.

Red Lead—Genuine in casks of 560 lbs., $4.50; ditto, in kegs of 100 lbs., $4.75; No. 1, in casks of 500 lbs., $4 to $4.25; ditto in kegs of 100 lbs., $4.50.

White Zinc—Genuine French V.M.,

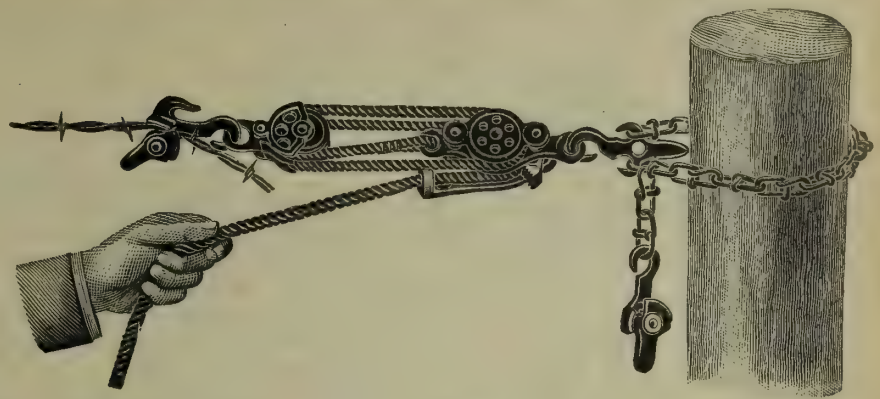
THIS IS THE

OLD STAND-BY

None better on the market unless it is the Triumph.

If your Jobber cannot supply, write us for prices.

NO. 233.—WILCOX TACKLE-BLOCK WIRE STRETCHER



WILCOX MFG. CO. OF ONTARIO, Limited



WE ARE PRODUCING THE

LATEST AND BEST DESIGNS IN

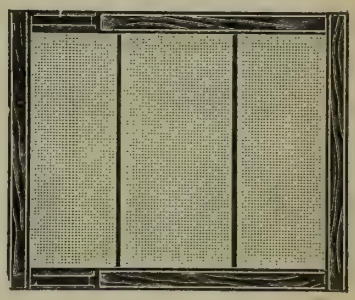
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PARIS. - ONT. Limited



Perfection Window Screen.

If You Buy

Varnishes Paints

Japans Colors

Lacquers Glues

Stains Bronzes

Fillers Chamois

Sponges

WRITE TO

R. C. JAMIESON & CO.

LIMITED

MONTREAL

AGENTS FOR ASPINALL'S ENAMEL.



We Can and Do

Make good brushes. Every man in our employ is skilled. Even our salesmen are practical brush makers.

SKEDDEN'S BRUSHES

Are made conscientiously. In the years they have been on the market they have stood for quality and value. A Skedden Brush never shames seller or maker.

Have You Our Catalogue?

The Skedden Brush Co., Limited, Hamilton

Toronto Office—176 Victoria St. 'Phone Main 3358. O. VICKERY, Agent.

SAVE THE PO-TA-TO!

THE CANADA PAINT COMPANY'S

PARIS GREEN

Is strictly pure.
Guaranteed the best that is made.

Beware of Bogus Bug Killers!

Disappointment and loss will follow the employment of anything but the purest Paris Green made by the Canada Paint Company. All substitutes are unmitigated humbugs and glaring frauds. They are either harmless to the bug or will sometimes kill BUG and VINE. Do not be deceived by bogus testimonials and false assertions. If you wish to annihilate the Colorado Beetle or Potato Bug, or to spray your trees, ask for THE CANADA PAINT COMPANY'S PURE PARIS GREEN, and

"See that you get it."

in casks, $6.50 to $7; Lehigh, in casks, $6 to $6.50.

Shingle Stain—In 5 gallon lots 75 to 90c. per gallon.

Paris White—90c. to $1 per 100 lbs.

Whiting—60 to 65c. per 100 lbs; Gilders' whiting, 75c.

Shellac—Pure orange in barrels, $2.75 to $3; white, $2.85 to $3.10 per barrel; No. 1 (orange), $2.25.

Linseed Oil—Our quotations are: Raw, 1 to 4 barrels, 50c.; boiled, 53c.; 5 to 9 barrels, raw, 49c.; boiled, 52c., Toronto, Hamilton, London, and Guelph, net 30 days. Advance of 2c. for delivery to outside points.

Turpentine — Single barrels, 90c.; 2 to 4 barrels, open; 5 barrels and over, open, f.o.b. point of shipment, net 30 days. For less quantities than barrels, 5c. per gallon extra will be added, and for 5 gallon packages, 50c., and 10 gallon packages 80c. will be charged.

Paris Green—600 lb. barrels, 13 1-4c.; 250 lb kegs 13 1-2c.; 50 lb drums, 14 1-2c.; 1 lb. packets, 15c.

Glues—Broken sheet, in 200 lb. barrels, 5 to 25c. per lb.; cabinet glue, in barrels, 11 1-2 to 12c.; emery glue, in barrels, 15c.; bookbinders' ground, 11 1-2c.; finest American white, 19c.; No. 1 American white, 15c. per lb.

Putty—Ordinary, bladders in barrels, $1.65 to $1.75; pure linseed oil, $2 to $2.10; bulk in barrels, $1.50; pure, $1.95 to $2; 100 lb. kegs 25c. extra.

Plaster Paris—New Brunswick, $2 per barrel.

Liquid Paints—Pure, $1.20 to $1.35 per gallon; No. 1, $1.10 per gallon.

Barn Paints—60 to 70c. per gallon.

Bridge Paints—75c. to $1.

Castor Oil—English, in cases, 8 1-2 to 9c. per lb., and 10c. for single tins.

Glass—See current quotations at the end of this issue.

Window Glass.

MONTREAL.

Practically speaking, the condition in Belgium continues unchanged. Although the strike continues the men are gradually giving in, and at present a few more of the small manufacturers are in full operation. The question displays its worst feature with the large manufacturers, where the conditions are absolutely unchanged. These prevailing conditions are probably the best reasons for warranting the retail merchant in increasing the size of his import orders, as he anticipates a demand this coming season that will be far in advance of former years. The market continues to be steady, and no change in prices is noted. We quote the following: First break, 50 feet, $2.00; second break, $2.10; first break, 100 feet, $3.75; second break, 100 feet, $3.95; third break, 100 feet, $4.50; fourth break, 100 feet, $4.75; fifth break, 100 feet, $5; sixth break, 100 feet, $5.50; seventh break, 100 feet, $6.00; and eighth break, 100 feet, $6.50. Diamond star, first break, 50 feet, $2.30; second break, 50 feet, $2.50; first break, 100 feet, $4.40; second do., $4.80; third do., $5.75; fourth do., $6.50; fifth do., $7.50; sixth do., $8, and seventh do., 9. Double thick, first break, 50 feet, $3.45; second do., $3.75; first break, 100 feet, $6.75; second do., $7.25; third do., $8.75; fourth do., $10; fifth do., $11.50; sixth do., $12.50; seventh do., $14; eighth do., $16.50; ninth do., $18; tenth do., $20; eleventh do., $24, and twelfth do., $28.50.

Petroleum.

Refined—Business is more active with no change in prices. We quote: Water white, 16 1-2c.; Canadian prime white, 15c.; American water white, 17 to 19c. ex warehouse.

Crude—Prices have fallen slightly. We quote: Pennsylvania, $1.39, Corning, $1.06; Newcastle, $1.31; North Lima, 92c.; Tiona, $1.54; South Lima, 90c.; Somerset, 81c.; Indiana, 88c.; Canadian, $1.35.

THE LINSEED OIL MARKET

(*Continued from page 46.*)

meant the risk of a vessel-load, to the price of which must be added inland freight, a very serious consideration.

In this state of the market they found it impossible to produce oil to meet the competition of the English crushers. The result of which now is that the Canadian jobbers, having been in the habit of getting oil from the home crusher, the quality of which was preferred by the consumer to oil produced elsewhere, have accepted orders from their customers for more oil than they now find themselves able to supply of home produce. In the meantime the price for oil in Great Britain has advanced somewhat, and as they have been cautious in buying their supplies in that direction until navigation is fully opened and several cargoes arrive from Great Britain, the supply of linseed oil in Ontario is sure to be very short and prices very firmly maintained.

THE DEMAND FOR AUTOMOBILE ACCESSORIES.

One of the most worthy features of the automobile trade this Spring, and also a characteristic quite unlike the trade in previous years, is the strong demand for high-class accessories. When a representative of Hardware and Metal called on the leading accessory houses in Montreal this week he was shown orders upon orders which demanded in almost every instance the highest-priced goods upon the market. The leading chauffeurs of our country have solved the question of eliminating dangers from their sport by arriving at the conclusion that a car must be fitted out with lamps, horns and dynamos of the best manufacture in order to insure safety and satisfy the people who wish to become one of the number.

A SUCCESSFUL YOUNG FRENCH CANADIAN.

A YOUNG French-Canadian, Mr. H. A. Bernier, manager for the establishment of L. J. A. Surveyer, hardware and sporting goods merchant, No. 6 St. Lawrence street, Montreal, has lately distinguished himself by winning through his ability valuable prizes in international competition in advertising. Mr. Bernier, whose photograph appears in these columns, has been connected with the retail hardware trade of Montreal for a number of years.

For some three years back a prominent American carpet sweeper manufacturing company, to stimulate the interest of retail merchants purchasing their goods, have organized a yearly competition among all their customers of this continent, giving valuable cash prizes for the best advertisements written.

These written advertisements presented by numerous competitors have been



H. A. Bernier.

judged by a number of advertising experts, who have been known throughout their business career as men of good repute and business ability. This method of judging has eliminated anything which might have appeared one-sided or unfair.

It must give the Canadian citizens much pleasure to learn that during the year of 1904 Mr. Bernier won from some three hundred competitors the first prize and received as his reward a cheque for $100. This was followed by a similar record for this year with another prize of $100. The number of competitors this year was greatly increased, over four hundred taking part. Mr. Bernier has also distinguished himself by winning the first and third prizes offered recently for the best essay on "How to Dress Hardware Store Windows," which was evenly contested by the retail hardware merchants.

McCaskill, Dougall & Co.
Manufacturers
RAILWAY, CARRIAGE AND BOAT VARNISHES.
HIGH-GRADE FURNITURE and HOUSE VARNISHES.
MONTREAL.

ABOUT GLUES
What kinds do you handle Are you and your customers satisfied? Perhaps we can give you a better article at a fairer figure. Our SCOTCH GLUES will be found of exceptional strength, and equal to many glues for which much higher prices are charged. Let us send samples.
GROVE CHEMICAL CO. Ltd, Appley Bridge, Lancashire, Eng.

O-SO-EZY
The Best Hardwood Floor Dressing and Furniture Polish
IN BBL. LOTS $1.50 PER GAL. SINGLE GALS., $1.75.
AGENTS WANTED. For further particulars write
O-So-Ezy Mfg. Co., Limited. 205 St. James St., Montreal

GILBERTSON'S
COMET
Agent: ALEXANDER GIBB, Montreal.
Brand Galvanized Sheets
cost less than some other brands, but will do your work equally well—Every Sheet guaranteed.
Makers: W. GILBERTSON & CO., Limited
Pontardawe, South Wales.



Did you ask what the difference was?
Well—
The Tarbox Self-Wringing Mop
is Self-Wringing
That means a whole lot to a woman—clean hands, white hands, frequency of use and cleaner floors, oil cloths, and all that, and for you, it means more sales.
Your Jobber has Them.
Don't You Want Them?
TARBOX BROS., Toronto

IRONSIDE FOR IRON
OUR SPECIALTIES ARE BRITISH AND FOREIGN IRON, STEEL, METALS, BARS, PLATES, SHEETS, BOLTS and NUTS, TIN PLATES, Etc.
Sole Licensees for PAGE'S PATENT WIRE STRETCHER, and we are willing to sell the right of manufacture in Canada on a Royalty basis.
IRONSIDE'S PATENT WIRE CUTTERS, guaranteed to cut any wire
We publish a "Canadian Metal Price List" monthly. Quotations in Dollars and Cents. (C.I.F.) We will send this, and our "Weekly Market Report" on receipt of address.
IRONSIDE, SON & CO., 16 Water Lane Gt. Tower St., E.C. LONDON, ENG.

By Royal Warrant
Sword Cutlers
to
HIS MAJESTY
THE KING

By Royal Warrant
Sword Cutlers
to
H.R.H. THE PRINCE
OF WALES

WILKINSON SWORD CO., LTD.

Manufacturers Of

RAZORS

GOLD MEDAL AWARDED 1904

Patent Safety
SHAVERS

Table and Pocket
CUTLERY

SCISSORS

Made from Finest Sword Steel

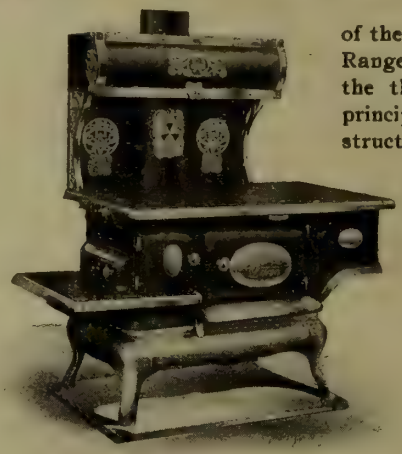
General Electro Plate

Our Representative is now in Canada, and will be calling upon you.

FACTORIES: Oakley Works, ACTON, LONDON
Colonial Works, SHEFFIELD

Head Offices: 27 and 28 PALL MALL, S.W., **LONDON, England**

A SUMMARY OF THE GOOD POINTS



of the Empire Queen Range: First of all the three guiding principles in its construction are

ECONOMY

APPEARANCE

EFFICIENCY

THE EMPIRE QUEEN RANGE

in addition is **easy to clean, looks well,** and has **all the latest features** found in a first-class Coal and Wood Range. It lacks the excessive carving found on many stoves, and in this respect is quickly appreciated by the woman who has to keep it bright and clean.

Our Catalogue describes it in detail. Send for it. Agents wanted.

The Canadian Heating & Ventilating Co.
OWEN SOUND, ONTARIO. Limited

THE "TITAN-ALEXANDRA"

The Most UP-TO-DATE CREAM SEPARATOR in the market!



ENTIRELY NEW MODEL!
Simplified Plate System and Self-balancing Principle Combined!

FURTHER IMPROVEMENTS:
Non-Slipping Bowl Device; Steel Spring Instead of Rubber Ring.

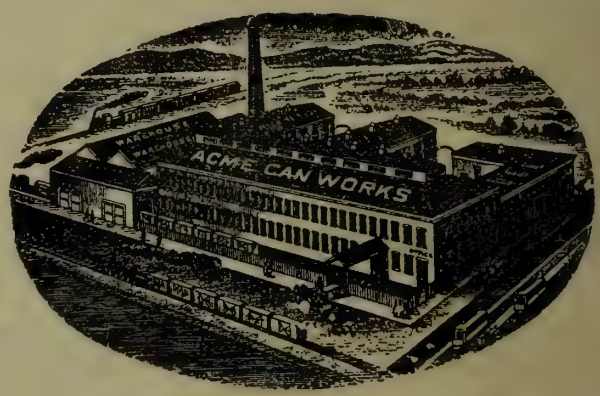
Hand Separators:
22, 45, 65 and 110 gallons.

Power Separators:
155, 265 and 500 gallons.

General Agents Wanted

Write direct to

ALEXANDRA SEPARATOR CO.,
65, 67, 69 Mount Pleasant,
LONDON, W.C., England.



When in Need of Cans, Serve Your Best Interests and Consult Us.

Acme Can Works make the largest assortment of any factory in America of TIN CANS by the latest up-to-date automatic machinery

We are the only makers in Canada of
KEY-OPENING MEAT CANS, POULTRY CANS.
They are our specialties.

Manufacturers for Canada of
Jewett's Self-Heating Can.

We solicit inquiries for prices on

Baking Powder, Oil, Syrup, Lye, Paint, Varnish, Condensed Milk, Poultry, Fruit, Vegetable } **Cans**

Lard, Syrup, Butter } **Pails**

ACME CAN WORKS
Ontario Street East, - - MONTREAL, P.Q

Business Changes

ONTARIO.

GUELPH PAINTING & DECORATING CO., Guelph, have assigned. A meeting of creditors is to be held April 17th.

S. Bradley, blacksmith, Manitowaning, was burned out.

McPherson Bros., hardware merchants, Belmont, have sold out.

McIntyre & Munroe, hardware dealers, Alvinston, have dissolved partnership.

J. J. Taylor, dealer in agricultural implements, Manitowaning, has been burned out.

W. J. Marshall, hardware and tinware merchant, Atwood, has sold out to W. Price & Co.

QUEBEC.

Cantin & Venne, painters, Montreal, have dissolved partnership.

A. Belanger, blacksmith, Pointe Gatineau, has removed to Sarsfield.

J. H. Hanson has been appointed Montreal agent of the B. Greening Wire Co., Limited.

W. Young, painter, Montreal, is dead.

H. O'Brien & Co., painters, Montreal, have assigned.

J. H. Hanson has been appointed chief agent to the Wm. Buck Stove Co., Limited, Montreal.

R. C. Stevenson has been registered as secretary of the Burrow, Stewart & Milne Co., stove dealers, Montreal.

MANITOBA AND N.W.T.

W. J. Johnston, blacksmith, Morden, has sold out.

H. Harper, blacksmith, Shoal Lake, has been burned out.

J. E. Reekie, hardware dealer, Margaret, has sold out.

R. S. Hewitt, tinsmith, Manor, has sold to Lorimer & Smith.

A. Little, blacksmith, Lumden, has been succeeded by J. N. McLeod.

J. A. Machan, hardware merchant, Sinclair, has sold to J. Stephens.

J. D. McLaren, hardware merchant, Lenore, has sold to J. A. Carleton.

Guilbault & Co., hardware dealers, St. Boniface, have sold to S. M. Jean.

W. Murphy, tinsmith, Saskatoon, has been succeeded by McDonald & Murphy.

W. J. Hyde, dealer in agricultural implements, Balgonie, has been burned out.

D. McDonald, dealer in agricultural implements, Virden, has sold out to A. E. Smith.

Martin Bros., dealers in agricultural implements, MacGregor, have sold out to M. Ward.

W. S. Fooshee, implements, Vancouver, has been succeeded by Fooshee & Hawke.

A. R. McFadden, dealer in agricultural implements, Manor, has sold out to H. Wiggins.

Hewitt & Wintermute, dealers in agricultural implements, Manor, have sold to H. H. Bilton.

RETURNED
APR 17 1905

OUR AGENTS
MESSRS. WAYLAND, WILLIAMS & DADSON
28 BOARD OF TRADE BUILDINGS, MONTREAL

are carrying a stock of our goods and will be pleased to have your inquiries for **Hex. and Square Cap Screws, Square Head Set Screws, Bright Washers,** and **Bright and finished Hex. Nuts.** The quality is right, and we can give you good deliveries

ACME LATHE & PRODUCTS CO., LTD.
MANCHESTER.

Clauss Brand BARBERS' Shears

FULLY WARRANTED.



Solid Steel and Steel Faced. Hand forged from Finest Steel.
These Shears are especially tempered for the purpose they are intended.
FULL NICKEL PLATE FINISH.

CLAUSS SHEAR CO., 169 Spadina Ave., Toronto, Ont.

H. & R. SINGLE GUN AUTOMATIC AND NON-EJECTING

12, 16 and 20 Gauge Steel and Twist Barrels

Superior in Design, Workmanship and Finish, and the most popular Gun on the Market.

Simplest "Take Down" Gun Made



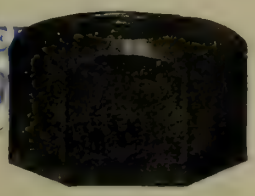
HARRINGTON & RICHARDSON ARMS CO.
Also makers of H. & R. Revolvers.
Catalog on request. Worcester, Mass., U.S.A.

New Metals Only

New and old Brass, Copper, Lead, Zinc, etc., best prices.
If you have any advise me.

W. G. HARRIS
31 William St., TORONTO
'Phone M. 1729 and 1730 - - - - - - - - Established 20 Years

BUY DIRECT AND SAVE MONEY



COLD PRESSED NUTS

Finished, Semi-Finished, Case-Hardened, Polished, Plated, etc.

CAP SCREWS THUMB SCREWS
SET SCREWS MACHINE SCREWS

Special Discounts to the Trade.

CANADA FOUNDRY COMPANY, Limited
HEAD OFFICE AND WORKS: TORONTO, ONT.
District Offices: Montreal, Halifax, Ottawa, Winnipeg, Calgary, Vancouver, Rossland.

STOVES AND TINWARE.

Changes in the Stove Trade.

A GREAT change in the customs of the people throughout the country, so far as their Summer cooking apparatus is concerned, has had its effect upon the trade of the stove dealer, and through him upon the manufacturer, says The Metal Worker. The advent of the gas range and the gasoline and blue-flame oil stoves has provided during the Summer season a cooking apparatus that has made the burdens of the housewife decidedly less than when a coal or wood fire was invariably used to prepare meals for the family. While the stove dealer has added these lines to his wood and coal stove display, they have only occupied his attention for a short period.

In former times the stove dealer kept continually on his sample floor an assortment of cooking stoves and ranges, and in addition to the natural rush of trade in the Fall a good Spring trade was done, with some sales all the year round, so as to warrant his keeping his sample lines in attractive condition. But the change of conditions, with sharper competition, has made it necessary for the stove dealer to add other branches to his business, so that in many instances stoves occupy less space and are not displayed so conspicuously as formerly, while all of the business in stoves in done in a comparatively few months in the latter part of the year. This change in the stove trade has been further intensified by the enterprising furniture dealer and department store manager in adding stoves to their lines which are sold at bargain-counter rates

The catalogue house has also come into the field, and now some stove founders dispose of their entire output through this distributive agency. This has scattered all kinds of stoves through all parts of the country, and as repairs are naturally sought through the stove dealer some of the orders that have come to him have been both annoying and unprofitable. This state of affairs has led the stove dealer, who looks upon himself as the legitimate distributor of the product of the stove foundries, to complain that he receives a poor return for maintaining a place where those who use stoves can secure information that will help the owners to get the best results.

The stove dealer has made stoves bake under conditions which the department-store man, the furniture dealer and the catalogue house could not overcome, and in which they would take no interest. The dealer naturally looks to the stove manufacturer to protect him from such competition in return for the service which he renders to both the stove manufacturer and the final customer.

It is only fair to state that this condition is not only fully understood, but has received attention in the discussions at different national conventions; but as yet no method of satisfying the protest or disposing of the difficulties has been evolved. The solution which has been applied by intelligent and enterprising stove dealers is the utilization of their own energy and business sagacity in meeting emergencies and turning them to a profitable account in such a manner as suggests itself to them.

The stove manufacturers in many instances have refused to distribute their product through other sources than the regular stove dealer, though complaint is made that some manufacturers sell to those in other branches of trade who are handling stoves as a side line at prices lower than those at which the stove dealer can purchase. The stove dealer naturally objects to this process, and feels that a scale of prices should be adopted which will secure for him protection even against the large buyer, who is utterly incompetent to satisfy the complaints of his customers when their stoves develop faults.

A Good Old Stove.

Mr. John Walker of Roxboro, Huron County, Ontario, has just removed from the kitchen of his residence a Victoria cooking stove which he purchased from the late John Kidd in 1860, and it was in constant use until March, 1905, when he had it taken down to make room for one of more modern construction. It was still in a very good state of preservation, and what is even more surprising, the same pipes that were got with the stoves were still in use when it was taken down, and some of them were so good that Mr. Walker had them used in connection with his new stove. Mr. Walker says that he has burned in that stove over four hundred cords of wood. This, certainly, is a stove with a record, and there are none made these days that could equal it for longevity.

The Same Old Way.

Customer.—"How much are those small tin children's baths in your window? I want to get one for my little daughter."

Hardware Man.—"Small size $1.75; large size $2.75."

Customer.—"My! So expensive—well I guess I will continue to bathe her in the coal scuttle."



You can sell
SOLARINE
Only get it started in your town.
When people know its merits they buy readily.
Quality counts — **SOLARINE**
QUALITY brings business.
H. F. FALKINER,
60 George St., TORONTO
Ontario Distributor.

OAKEY'S The original and only Genuine Preparation for Cleaning Cutlery. 6d. and 1s. Canisters
'WELLINGTON' KNIFE POLISH
JOHN OAKEY & SONS, LIMITED
MANUFACTURERS OF
Emery, Black Lead, Emery, Glass and Flint Cloths and Papers, etc.
Wellington Mills, London, England
Agent:
JOHN FORMAN, 644 Craig Street
MONTREAL.

YOU WILL SELL MORE METAL POLISH
IF YOU SELL
YORK
Quick, clean, brilliant. Cleanses and polishes at one operation. Free samples with every order. Sample on request to any dealer.
ANGLO-CANADIAN SUPPLY CO.
3 Wellington St. E., TORONTO



ALL Leading Dealers handle the Best and Largest Line of Refrigerators on the market. That's **OURS**
HAM & NOTT CO., Limited, BRANTFORD, ONT.
WRITE FOR CATALOGUE.

WORK AND PRICES RIGHT
GALVANIZING
ONT. WIND ENGINE & PUMP CO. LIMITED
TORONTO, ONT.

TRADE MARK
This design a guarantee of quality.
Heavy Red-Brown Wrapping
FOR EXPRESS PARCELS. STRONG, TOUGH AND STIFF
SAMPLES AND PRICES GLADLY SENT
CANADA PAPER CO.
Toronto LIMITED Montreal

We will be glad to receive your orders for Searchlight Lanterns, Hinge and Lift Lanterns, Railway Lanterns and Lantern Burners.



This cut shows our **Cold Blast Lantern** with side lift. We also make the Cold Blast with bottom lift. Plain and japanned.

E. T. WRIGHT & CO. - HAMILTON, ONT.

"SWORD AND TORCH"
FINE BRIGHT CRYSTALS. CR & CA DEAD FLAT
Guaranteed to work both ways of the grain. Nice and soft for working.
THOSE WHO ONCE HAVE USED THEM NEVER
WISH TO CHANGE, AT EQUAL PRICE.
J. A. HENDERSON, Board of Trade, MONTREAL

PLEASE DO IT
SEND FOR OUR CIRCULAR WHICH DESCRIBES OUR ALL METAL
WINDOW SCREENS
YOU SPEND A CENT AND WE'LL DO THE SAME.
C. M. CUTTS & CO., Sole Makers, Toronto Junction, Ont.



You can easily convince a customer that the

Imperial Oxford Range

is the most efficient on the market by demonstrating its many exclusive features.

The ***diffusive flue*** draws in fresh air from the kitchen, superheats it and diffuses it throughout the oven from the top.

The ***ventilation*** acts perfectly, drawing off all odors of the food cooking from the oven and discharging it up the chimney.

The ***duplex grates*** may be removed and replaced by an inexperienced person without disturbing the brick linings.

These are only three of the many exclusive features of the Imperial Oxford. There are many more which instantly appeal to the range purchaser.

Why not write for particulars?

The Gurney Foundry Co., Limited
TORONTO WINNIPEG VANCOUVER
The Gurney-Massey Co, Limited, Montreal, Que.:
The Gurney Standard Metal Co., Limited, Calgary, Alta.

BUILDING AND CONSTRUCTION

Building Notes.

B. E. Smith, Moncton, N. B., is to erect a brick block.

Winnipeg Knights of Pythias are to erect a $25,000 hall.

S. G. Smith, Brantford, is to build an $1,800 residence.

Porter Bros. are to erect a stone block at Hewrad, Assa.

Building permits in Vancouver are expected to exceed $300,000 in April.

The furniture factory at Mitchell is to build a large addition this Summer.

Toronto capitalists are behind a move to build a $200,000 hotel at London.

Stephen Jones has secured a permit for an $80,000 block in Vancouver.

A. Hoskins, Brantford, has secured a permit for a $1,500 brick residence.

C. W. Wheeler, Winnipeg, is the architect for a new school at Rainy River.

The National Supply Co. is erecting a warehouse and planing mill in Winnipeg.

Pettengal & VanValkenburg, Regina, are calling for tenders for a new school for that town.

A new, up-to-date warehouse has been erected in connection with the Grundy stove foundry Guelph.

Hooper & Walker, Winnipeg, have in charge the erection of a church at St. Charles, to cost $15,000.

J. Y. Griffin & Co., Winnipeg, will rebuild the pork-packing establishment burned down two weeks ago.

Mr. Warren, New York, is in Winnipeg preparing plans for a fine new depot for the Canadian Northern Railway.

Tenders are being called for by John Schwab, Winnipeg, for a brick and stone church for the Lutheran Trinity congregation.

Hiram Walker & Sons, Walkerville, will next Summer erect two rack warehouses, each having a capacity of about 15,000 barrels.

The Manitoba Cartage Co., Winnipeg, is building new stables, width 100 feet, length 293 feet, with solid brick walls and concrete floors.

The new C.P.R. Hotel at Winnipeg is slowly climbing skyward, and of the station part of the building two storeys are already completed.

John Leslie, furniture dealer, Winnipeg, is building another warehouse. It will be a six-storey brick building, and will be completed next Fall.

Bawtinheimer & Sons of Reed Deer, Alta., are putting in a large sawmill outfit this Spring in place of the small one they have had in the past. This looks as though Red Deer was going ahead.

John Robertson & Son, Burford, have closed a deal with a contractor for the building of their new store, which will be of solid brick, 33x66 feet.

H. H. Howell, Winnipeg, is erecting a two-storey apartment block containing sixty-one sleeping rooms, on the corner of Francis and McDermot streets.

The Rosthern, Man., school is overcrowded, and the board is seriously considering a $4,000 addition to the $12,000 building erected two years ago.

Friesen & Penner, Rosthern, Man., are preparing to erect a cement block, and J. A. Dawson, of the same place, will build a large brick store this Summer.

J. G. Watson has purchased a large amount of machinery, to be used in manufacturing pressed brick and cutting stone at Sandstone, 22 miles from Calgary.

The Winnipeg Lodging and Coffee House, a charitable institution, has increased its stock from $15,000 to $20,000, and intends building a new coffee-house four storeys high.

Mr. R. H. Jackson, with other local capitalists, of Peterborough, Ont., have purchased 350 acres at Eels Creek, Man., where a modern Summer hotel will be erected with 150 rooms.

Glass bricks are coming into use, and it is said that this material will soon be used for making statues and monuments, as it resists the effects of weather much better than marble or granite.

Work on the new warehouse of the International Harvester Co., Winnipeg, which is to be a building of splendid proportions, has been resumed upon the foundations north of the subway, a large gang of workmen being employed. The foundations were laid last Fall.

Among new buildings announced as going up in western towns this Spring are: A $25,000 school at Virden; an $8,000 school at Shoal Lake; a brick business block at Somerset for J. A. Decosse; an Odd Fellows' hall at Miami; also a block for the Merchants' Bank at Wetaskiwin, N.W.T.

Twenty-five building permits, representing an aggregated expenditure of at least $106,000, were taken out at the city commissioner's office during last month. They ranged all the way from $175 for a stone foundation to a small house to $20,900 for the new St. Patrick's asylum.

The Sydney Cement Co., Sydney, Nova Scotia, incorporated with a capital of $500,000, to manufacture cement from slag, a by-product of the Dominion Iron and Steel Co., have awarded the contract for erecting their factory to C. J. Curtis, and for the necessary machinery to the Ruggles, Coles Engineering Co., both of New York City. The plant will cost about $225,000, and will have a capacity of 500 barrels of cement daily.

Building Permits.

MONTREAL.

J. Howe, dwellings, 404 Boyer avenue, $1,900.

A. Gagnon, dwellings, 466 Cuvillier street, $4,000.

J. B. Zappa, dwellings, 98 Duquette street, $1,500.

A. Bafrance, dwellings, 610 Wolfe street, $1,600.

S. A. Agnew, dwelling, 1589 Guy street, $7,000.

M. Laurier, dwelling, 1195 Ontario street, $4,000.

L. Desfocas, dwellings, 331 Chambord street, $1,600.

M. Perras, dwellings, 435 Frontenac street, $2,200.

L. Contu, dwellings, 1225 Gauthier street, $1,800.

J. A. Dansereau, dwellings, 475 Huntly street, $1,500.

Jos. Chalifaux, dwelling, 329 Brebocuf street, $1,500.

O. Lamontagne, dwellings, 575 Huntly street, $1,400.

M. Desjardins, dwellings, 841 St. Hubert street, $1,800.

J. Jeannotte, dwellings and store, 851 ette street, $2,000.

D. M. McGoun, dwelling, 1530 Drummond street, $9,500.

Jos. Lafrance, dwellings, 209 Mount Royal avenue, $3,500.

N. Deslausiers, dwellings, 1193 Sherbrooke street, $6,000.

A. Brunet, dwellings, Nos. 104, 37 and 38 Berri street, $10,000.

J. Jeannotte, dwellings and store, 85 Demontigny street, $8,000.

Mrs. N. Bellehumeur, dwellings, 557 Mount Royal avenue, $4,000.

Chantelouf M'f'g Co., alteration to dwelling, 782 Cote street, $5,000.

TORONTO

I. N. Woolner, residence, No. 82 Dunn avenue, $3,200.

W. Blanchard and F. Courtmanche,

"DOMINION BRAND" TARRED FELT
(THE OLD RELIABLE QUICK SELLER)

ROOFING PITCH
COAL - TAR

WHEN YOUR TRADE DEMANDS **THE BEST** ROOFING MATERIALS

CONSULT THE WELL-KNOWN MANUFACTURERS

LOCKERBY & McCOMB, 65 Shannon St., Montreal

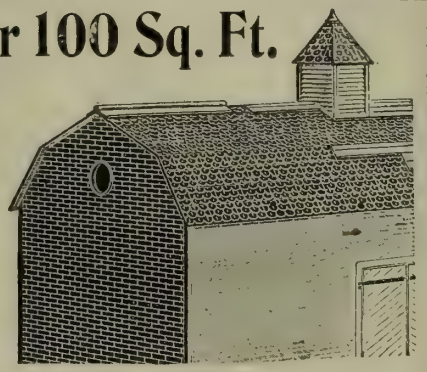
Steel Roofing and Siding, $2.00 per 100 Sq. Ft.

Painted red on both sides. Most durable and economical covering for **Roofing or Siding, for Residences, Houses, Barns, Elevators, Stores, Churches, Poultry Houses, Cribs,** etc. Easier to lay and will last longer than any other covering. Cheaper than wood shingles or slate. No experience necessary. A hammer and snips are the only tools required. It is semi-hardened high grade steel. **Brick or Stone Siding at $2.00 per 100 Square Feet. Pedlar's Patent Steel Shingles at $2.50 per 100 Square Feet.** Also **Corrugated Iron, Painted or Galvanized,** in sheets 96 inches long. **Beaded and Embossed Ceilings. V Crimped Roofing.** 2000 designs of Roofing, Siding and Ceilings in all grades. Thousands of buildings through the Dominion covered with our Sheet Metal Goods making them

FIRE, WATER AND LIGHTNING PROOF.

Send in your order for as many squares (10 x 10 feet) as you require to cover your new or old building. The very best roofing for this climate. We can supply **Eave Trough, all sizes, Corrugated or Plain Round, Conductor Pipes, Shoes, Elbows, Spikes, Tubes.**

All goods shipped day after order is received. We are the largest concern of the kind under the British Flag. Established 1861. Capital Invested $150,000.00.



PEDLAR PEOPLE, OSHAWA, ONTARIO, CANADA.

Eastern Warehouse—767 Craig St., Montreal, Quebec.

GURNEY CYLINDER LOCKS

THESE Locks represent the best there is in Lock construction.



They are not cheap Locks, though much lower-priced than the locks imported from the United States. The Hardware dealer serves builders perfectly when he sells them **Gurney** Cylinder **Locks**—they get the best locks constructed at a very considerable saving.

All Hardware Dealers Should Have Our Catalogue.

THE GURNEY, TILDEN CO., Limited
HAMILTON

BRANCHES:
Winnipeg—Tilden, Gurney & Co., Limited
Vancouver—The Gurney, Tilden Co., Limited

AGENCIES:
Montreal—Nicoll & Barr, 35 St. Peter St.
St. John—Nicoll & Barr, 38 Dock St.

dwellings, near Dundas street on Golden avenue, $2,800.

R. J. Cooper, dwelling, No. 301 Carlton street, $2,700.

H. Hutson, dwelling, No. 246 St. George street, $6,000.

R. T. Smith, dwellings, Nos. 92 to 98 Sorauren avenue, $7,200.

R. Dale, dwellings, corner of Shaw and College streets, $8,000.

John Walsh, stable, near Queen street on St. Paul street, $1,500.

Frank Hillock, dwellings, Nos. 73 and 75 Simpson avenue, $4,000.

T. E. Vallentyne, dwellings, Nos. 655 and 657 Shaw street, $5,000.

G. W. Cruise, dwellings, near Gerrard street on Pape avenue, $3,000.

F. Sullivan, dwellings, near College street on Grace street, $4,500.

B. H. Morehouse, dwellings, Nos. 58 and 60 Withrow avenue, $3,000.

R. A. Stiver, dwellings, near Bloor street on Brock avenue, $3,600.

J. A. Armstrong, dwelling, near Perth avenue on Maude avenue, $1,500.

Jno. J. Walsh, dwellings, near Bloor street on Dundas street, $39,600.

C. W. Chadwick, dwellings, Nos. 913 and 915 Dovercourt road, $4,000.

T. J. Madill, dwellings, near Avenue road on Farnham avenue, $7,200.

F. L. Beecroft, dwelling, near Bloor street on Dovercourt road, $5,400.

J. Morrison, dwellings, corner Harbord and Robert streets, $4,000.

Samuel Haviland, dwelling, near Bloor street on Crawford street, $1,500.

M. A. Pennock, dwellings, near Arthur street on Gore Vale avenue, $4,000.

F. Burgess, dwellings, near Broadview avenue on Victor avenue, $8,200.

H. F. Saunders, dwellings, near Sorauren avenue on Wright avenue, $3,200.

Bishopric & Co., carpenter shop, Nos. 248, 250, and 252 Victoria street, $2,000.

Acme Loan & Savings Co., dwellings, near Harrison street on Shaw street, $6,000.

R. F. Spence, dwelling, near Mowat avenue on Lake Front, Centre Island, $1,500.

Addison & Mainprice, office and factory, near Duncan street on Pearl street, $6,000.

OTTAWA.

J. Grierson, dwelling, Maple street, $3,500.

Ed. Wallace, dwelling, Elgin street, $11,000.

Davis & Hill, houses, Rosebery avenue, $10,000.

J. and L. Skelley, dwelling, King street, $3,500.

T. D. McFarlane, factory, Slater street, $5,000.

Napoleon Lepage, dwelling, Frank street, $4,300.

J. and C. Low, dwelling, Laurier avenue, $9,600.

Mrs. A. E. McVeity, bakery, Laurier avenue, $5,000.

A. Larose, shop and dwelling, Queen street, $3,000.

Napoleon Lepage, dwelling, St. Patrick street, $3,400.

Mrs. J. R. Forbes, dwelling, Waverley street, $10,000.

St. Patrick's Orphan Asylum board, Gloucester street, $20,975.

HAMILTON.

J. S. Pinch, dwellings, Main street, $4,600.

Canadian Drawn Steel Co., factory, $16,000.

H. S. Brennan, dwellings, Erie avenue, $5,000.

Mrs. Sharpe, residence, Catharine street, $2,000.

J. Andrew, residence, Sophia and Dundurn streets, $1,700.

R. & J. Poag, dwellings, Park and Sheaff streets, $9,000.

The Hanover Portland Cement Co., Limited

HANOVER, ONTARIO

Manufacturers of the celebrated **"Saugeen Brand"** OF PORTLAND CEMENT.

Prices on application.

"THE EMLYN" SAW BENCH

Made in 6 sizes. Best value obtainable. Specially designed for export With or without "Emlyn" Patent Guard. Sole maker—

CHARLES D. PHILLIPS,

Cables— "Machinery," Newport. Emlyn Engineering Works NEWPORT, MON., ENGLAND

Don't Forget the Name...

NEWMAN'S INVINCIBLE

FLOOR SPRINGS

Strong, Quick, Reliable, Effective.

Will close a door against any pressure of wind. Far ahead of ordinary door springs, pneumatic or otherwise. Ask your wholesaler.

W. NEWMAN & SONS, Birmingham.

PRIEST'S CLIPPERS



Largest Variety, Toilet, Hand, Electric Power

ARE THE BEST.

Highest Quality Grooming and Sheep-Shearing Machines.

WE MAKE THEM.

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American Shearer Mfg. Co., Nashua, N.H., U.S.A.

Wiebusch & Hilger, Limited, special New York representatives, 9-15 Murray Street.

MANUFACTURER'S AGENTS.

IMPORTERS, ATTENTION

Save money by consigning your importations direct to destination and pay through freight charges only. Have your goods cleared and distributed by

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Customs Brokers, Forwarding and Distributing Agents Vancouver, B. C. Satisfactory service given.

ALEXANDER GIBB

Manufacturers' Agent and Metal Broker, 13 St. John Street, Montreal

Representing British and American Manufacturers. Correspondence invited from firms wishing to be represented in Canada.

ORDERS ARE COMING



Plate 4001

thick and fast for our **new ceiling goods**. Our new **"GOTHIC"** and **"LOUIS XIV"** classifications together with our low prices and liberal treatment enable the trade to

Get the Business.

Our new catalogue and price list is now ready for distribution and if you do not receive copy within a few days advise us.



Plate 4005

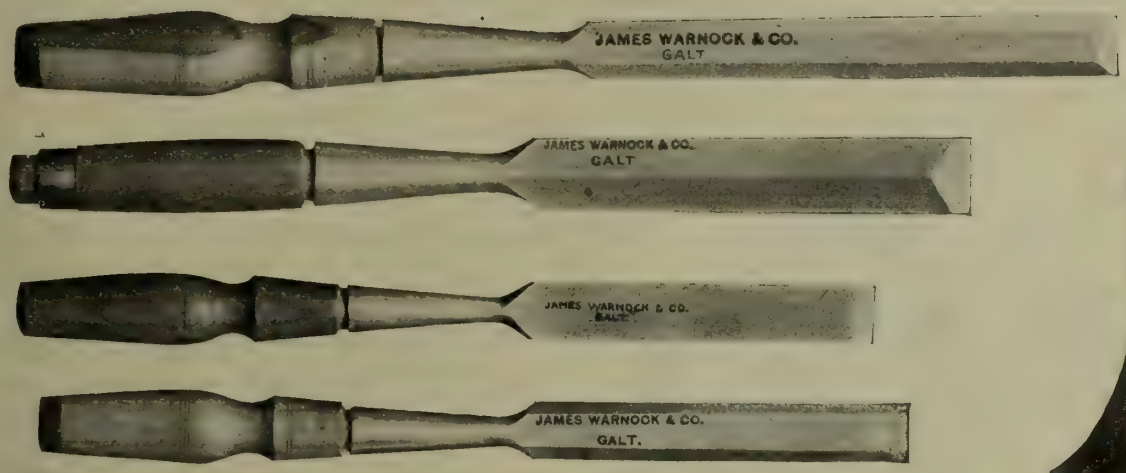
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ALBERTA AGENCY, Ellis & Grogan, Calgary. **NORTHWEST AGENCY,** Clare & Brockest, Winnipeg.

MONTREAL AGENCY, J. B. Dagenais, 953 St. James St.

Warnock Tools

BEST IN THE WORLD





Jas. Warnock & Co., Galt, Ont.

MANY OF THE BEST ARCHITECTS ARE SPECIFYING

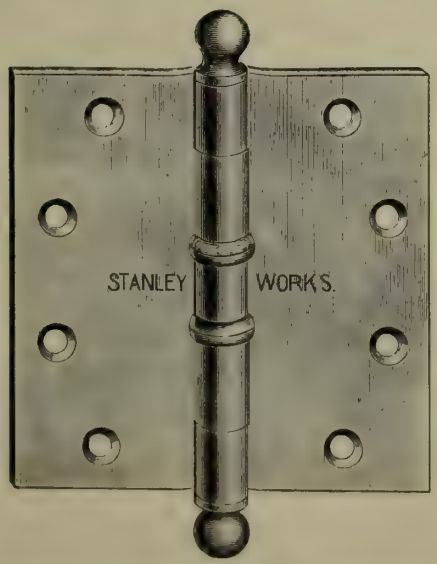
Stanley's Ball-Bearing Hinges

FOR ALL THEIR IMPORTANT WORK. DEALERS SHOULD HAVE THEM IN STOCK.



CUT OF WASHER
FULL SIZE

IT IS SO CONSTRUCTED THAT IT WILL NOT COME APART IN USE



MADE IN WROUGHT BRONZE AND STEEL

ARTISTIC BOOKLET ON APPLICATION.

THE STANLEY WORKS, New Britain, Conn.

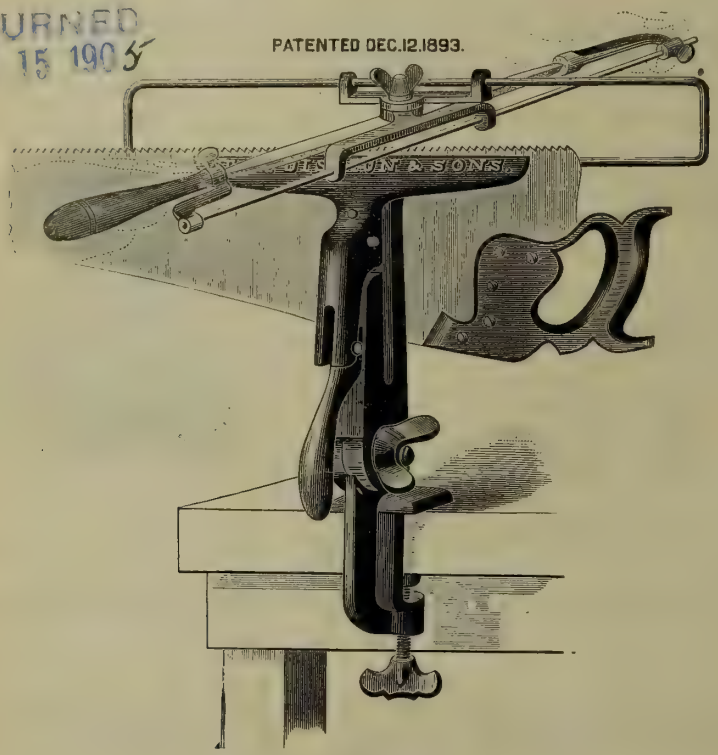
FOR SALE BY LEADING JOBBERS.

NOVELTIES FOR THE HARDWAREMEN

Saw Clamp and Filing Guide.

THE accompanying cut illustrates a saw clamp and filing guide, manufactered by Henry Disston & Sons, Inc., Philadelphia. The illustration shows a saw and the guide in proper position for filing the first side. There are three marks on the upper hub of the swivel attachment, and one mark on the other. One of the three marks shows when it is in position for first side and the other designates when it is in position for filing the other side. The third, or centre mark, shows when it is in position for filing rip saws. To obtain the correct position loosen the wing nut and move the guide around to the point desired; after tightening wing nut, loosen screw in file handle and adjust the file for the shape of tooth wanted.

RETURNED APR 15 1905



Disston's Saw Clamp and Filing Guide.

A House-Cleaning Blessing.

A MAGAZINE tack hammer is one of the newest novelties which is being manufactured by the Kennedy Mfg. Co., North Easton, Mass.



Magazine Tack Hammer — Fig 1.

The illustrations show the method of operating the hammer, while the printed description is as follows:

"Fill the hammer with the loader according to directions, and it is ready for use. Push the rod on the top of the hammer as far as it will go, and then release it. The end of the hammer is a strong magnet, which will last a life-time. This magnet automatically takes the tack given out from the tack magazine inside the handle, and presents it ready for hammering. The tack can then be driven in one or more blows into the hardest of wood, without fear of hurting the hammer in any way.



Fig 2.

"To use the hammer: (1) Remove the keeper from the face of the hammer. (2) Hold the hammer in a level position and push rod P. with the thumb as far as it will go, as in Fig. 2. (3) Remove the thumb from the push rod, and the tack is ready to drive with one or more blows, as in Fig. 3. If the hammer is so held in driving that the tacks all slide back into the handle end of the raceway, it is obvious that the hammer must be tipped enough to make the tacks slide into the other end, before another tack can be taken from it.



Fig 3.

The magnetism will last forever, if a keeper is kept on the face of the hammer, when it is not in use. If the keeper is lost, any piece of iron or steel about the same size will answer the purpose.

RETURNED APR 15 1905
To Owner
our Book 3
Page 5-8

Spring is Here.

The first warm days in the Spring are times when everyone gets out on the streets. That means that everyone will see your window. How is it prepared for this inspection? Is that heating stove still there, or have you some seasonable merchandise on display?

The Fish are Biting.

Time to get out the fishing tackle. Soon the trout fishermen will be replenishing their outfits, and then come the rest of the long procession in rapid succession. A number of new baits are on the market this year, but their virtues remain to be proven.

Toronto Rubber Roofing

WEATHER-PROOF,
ROT-PROOF,
FIRE-PROOF.

Send for Samples

A VERY SALABLE ARTICLE

Best Prices to Trade

All material complete in each Roll.

LUXFER PRISM CO., LTD., 100 KING ST. W., TORONTO.

The Finest on Earth

When seeking quality in saws the intelligent mechanic need go no further than the Atkins high-grade Silver Steel Hand Saws. In material, temper, finish, and cutting qualities they are perfect.

The Atkins Silver Steel Hand Saws with Perfection handle sell at sight. Dealers everywhere find them a good investment.

Write for catalog and prices,



ATKINS ALWAYS AHEAD

E.C. ATKINS & CO.

LEADING SAW MANUFACTURERS

INDIANAPOLIS, IND., U.S.A.

Canadian Branch
56 KING STREET EAST,
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MAXIMUM LIGHT GLASS

LIGHT-PROJECTING GLASS—one of the products of our 20th century civilization. Once glass itself was a marvel; now glass is made to be more than merely transparent; it can be made to gather and diffuse light. MAXIMUM LIGHT GLASS is such a glass. It combines lenses and prisms. It gathers the natural light from the sky, and projects it perfectly into corners and interiors otherwise dark and forbidding. Its cost is less than one would expect.

A Sample and our Booklet free to those requesting them.

THE HOBBS MANUFACTURING CO., Limited, LONDON, ONT.

Glass Importers and Manufacturers. **Sole Canadian Agents.**

INDUSTRIAL GOSSIP

HARDWARE AND METAL would be pleased to receive from any authoritative sourse industrial news of any sort, the formation or incorporation of companies, establishment or enlargement of mills, factories, foundries or other works, railway or mining news. All correspondence will be treated as confidential when desired.

FORT WILLIAM is looking forward to big things now that the Grand Trunk Pacific has decided to place its terminal there. Mr. E. A. Morton, a resident of Fort William for the past fifteen years and one who has watched the town grow from an insignificant village of 200 to its present proportions of a city of 8,000 souls, was interviewed in Winnipeg a few days ago. He said: "Inside of five years Fort William is going to have a population of 25,000 and this I believe to be on a conservative basis. Everything is in favor of this proposition. All the C.P.R. supplies, for the main and branch lines, will be handled at the port, and a large number of railway men will be paid their wages there. The development of the Kakabeka water power will employ over a thousand hands, and when completed we shall have about the cheapest supply of power in the Dominion of Canada. Many large manufacturing corporations are recognizing the wonderful facilities which Fort William offers, and the J. I. Case Manufacturing Co., the John Deering Plow Works, and other manufacturing companies, have already started, and many more will be established there in the near future. This will have the effect of making Fort William one of the largest manufacturing centres in Canada."

The Grand River Metal Co. have decided not to move their factory from Galt.

Berlin has failed in its effort to induce the Dennis Wire and Iron Works to move from London.

D. Clark, of Powassan, Ont., is in Winnipeg looking for a suitable site for a big brick plant.

The East Kootenay Lumber Co., Cranbrook, B.C., are looking for a location for a branch at Brandon, Man.

The American Glue Co., which it was announced had decided to locate at Guelph, are now negotiating with Brantford.

Guelph has granted a free site to the Canada Glue Co., who guarantee to invest $30,000 in buildings and machinery.

The B.C. Electric Railway has nearly completed its new branch in Victoria, the line running out to the celebrated Gorge bridge.

The Grand Trunk and the Pere Marquette Railways have laid off several hundred men at their shops in St. Thomas and Stratford.

Treherne, Man., has passed the by-law granting a loan of $5,000 to C. Weichman to erect a flour mill on the site of the one recently burned.

The Fredericton, N.B., City Council has refused to grant the petition of E. A. Morgan & Co., carriage manufacturers, who asked for a bonus of $15,000 to enable them to enlarge their business.

Plans are being prepared for an addition to be built to the Pender Nail Works at St. John, N.B. This will give space for additional machinery, so that the output of the factory can be considerably increased.

The Board of Trade at St. John, N. B., have unanimously adopted a resolution in favor of the construction of a tunnel between Prince Edward Island and the mainland, and of providing an additional Winter boat in the meantime.

The Canadian General Electric machine shops at Peterboro', for the first time in the history of the company, have started working night and day, owing to the pressure of business. If houses and men could be got the whole works would be put on a 24-hour-a-day basis.

One of the big orders sent east from Winnipeg in March was that of the Canadian Northern Railway for a million dollars' worth of new equipment, to be delivered before the end of the year. The purchase includes passenger coaches of all kinds to the number of sixty-two.

A western branch of the Munroe Wire Works of New Glasgow, Nova Scotia, has been opened in Winnipeg with Mr. James Munroe as manager. Their building is 40x100, four storeys, and an annex will be constructed as soon as Spring opens, 70x30, two storeys with a power house and a blacksmith's shop.

It is likely that legislation will be introduced shortly confirming an order-in-Council passed by the late Government, allowing the Electrical Development Co., which in reality is the Toronto & Niagara Power Co., to develop 250,000 horse-power at Niagara Falls, instead of 125,000, as their present agreement calls for.

The Cyclone Wire Fence Co., of Toronto, have decided to locate in Woodstock. They have been given a free site by the city, and will at once proceed to erect a large factory. The Ann Arbor Machine Co. have secured a site from the C.P.R., and they, too, will at once put up a factory. These, with the factory to be built by the Eureka Planter Co., of Windsor, will make three factory buildings to be erected in Woodstock this Summer.

One of the enterprises that has contributed to the upbuilding of Winnipeg is the Rat Portage Lumber Co.'s establishment in Norwood, St. Boniface. The erection of a large mill last year and the employment of a large number of men has largely increased the business of the suburb. Last week a big sash and door factory, the largest of its kind in the province, and one of the largest in the Dominion, was opened there by the same company.

The Empire Elevator Co. will construct another large elevator of approximately 1,750,000 bushels' capacity. The big plant will be constructed of steel and tile, and will be located near the site of the elevator company's present building at Fort William. Since the passing of the blast-furnace by-law in Port Arthur recommending the construction between the two towns of a $1,000,000 blast furnace, property in the locality of the proposed furnace has risen to tremendous values.

The recent decision of the Canadian Government to grant a bounty of $6 per ton to encourage steel shipbuilding should be the means of building up a large industry in Canada. The City of Halifax and other municipal authorities some time ago offered a joint cash subsid- of $300,000 to any company that would establish a steel shipbuilding plant at Halifax. The Government tonnage bounty is regarded as a further step in the same direction. The bounty is applicable to the whole of Canada and its adoption was supported by delegates from Canadian rate ports, British Columbia and Nova Scotia.

A Philadelphia despatch says that foreclosure upon the property of the Michigan Lake Superior Power Co., and a reorganization of the company, are recommended by a committee acting for the first mortgage bondholders of that corporation. This is the result of a demand for cash to put the company's great power plant and canal at Sault Ste. Marie in proper condition, and of an announced anticipated default in $175,000 interest on the bonds due May 1. Severe reflections are cast upon the Lake Superior and the old Consolidated Lake Superior Companies for certain methods pertaining to the controlled company.

COMPANIES INCORPORATED.

Murphy Iron Works, of Michigan, have been granted power to do business in Ontario with M. C. Huyatte, of Toronto, as its attorney.

Leamington-Cromber Oil Co., Limited, of Michigan, have been granted power to develop oil properties in Ontario, with A. R. Bartlett, of Windsor, as attorney.

Parkin Elevator Co., Limited, Hamilton, share capital $40,000, purpose to manufacture fire escapes, elevators, etc. The directors are: J. Parkin, A. Winckler, W. A. Gibb and E. Parkin, all of Hamilton.

Harris Oil Co., Limited, Windsor, share capital $100,000, purpose to develop oil properties. The directors are: F. C. Harvey, J. Hartenstein, G. R. Harris, J. C. Goodrich, and H. C. Colborn, all of Detroit.

Colonial Veneer Limited, Toronto, share capital $40,000, purpose to manufacture glue, cement and paint. The directors are: B. D. Cole, H. F. Meylan, T. H. Wilson, A. M. O'Brien, and J. F. Hollis, all of Toronto.

Continuous Steel Rail Co., Limited, Toronto, share capital $500,000, purpose to manufacture steel rails, car wheels and railroad supplies. The directors are: F. B. Allan, Wm. McConnell, A. F. Webster, J. M. Smith and C. Bonnick, all of Toronto.

Crucible Steel Casting Co., Limited, Hamilton, share capital $50,000, purpose to manufacture steel and iron castings. The directors are: G. L. Husband, Philadelphia, Pa.; and G. E. Husband, E. H. Husband, B. K. Husband and J. Scott, all of Hamilton.

Lakefield Furniture and Mfg. Co., Limited, Toronto, share capital $125,000, purpose to manufacture furniture and do business as machinists and foundrymen. The directors are: J. F. Lillicrap and E. R. Tait, of Lakefield; A. A. Dickson, H. W. Evenden and J. Morrison, all of Toronto.

STREET PAVING and SIDEWALKS a SPECIALTY

SILICA BARYTIC STONE CO.

OF ONTARIO Limited

Water Proof Floors for Malt Houses, Breweries, Slaughter Houses Cheese Factories, Cellar, Stable Floors, etc

Head Office:
Ingersoll, Ontario.
Walter Mills, General Manager
Ask for quotations for Septic Tanks.

A PERMANENT and Handsome Roof.



Arrow Brand Asphalt Ready Roofing

Will bring you profitable trade and satisfied customers. Comes in rolls ready to lay, all ready covered with gravel. Requires no experience to lay, and lasts for years without further attention.

A. C. JENKINS & CO, Sole Agents,
Room 215 Coristine Building, - MONTREAL.
Sole agents being appointed in each district. Write to-day.

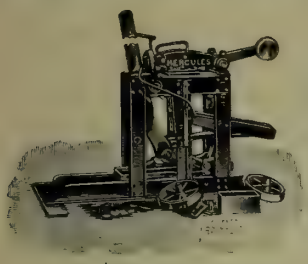
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That's what a shelf bracket is for.

For this purpose there can be NOTHING BETTER, NOTHING CHEAPER than the BRADLEY STEEL BRACKET. It is well Japanned, Strong and Light. The saving in freight is a good profit, aside from the lower price at which the goods are sold. Order direct or through your jobber.

ATLAS MFG. CO.,
New Haven, Conn., U.S.A

Bricks! Bricks! Bricks!



If you know of anyone intending to make bricks, induce him to use one of our

Hercules Handpower Press

IT WILL PAY YOU

No previous experience needed.

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P. O. Box 198 BRUSSELS (Belgium)
Cable Address "FORWARD BRUSSELS."
Indents through European merchants.

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Pedlar's "Perfect" Lath

when Metal Lath will be used by every progressive builder.

The architects specify it. The house-builder, the man building a factory, a warehouse, an hotel; the contractor—all these people will use it.

It is a new thing to many, we grant—20 years old, however, and in the United States its use is enormous.

We make it.

But we want the hardware dealers to join with us in selling it.
A new line; added profits.

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OSHAWA, ONT
Eastern Warehouse, 767 Craig St., Montreal

"THE MONARCH"

A high-class up-to-date Block Machine. Equal in every respect to machines costing very much more.

For circulars and further information write

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32 Church St., - Toronto.

To the Wholesale Trade.

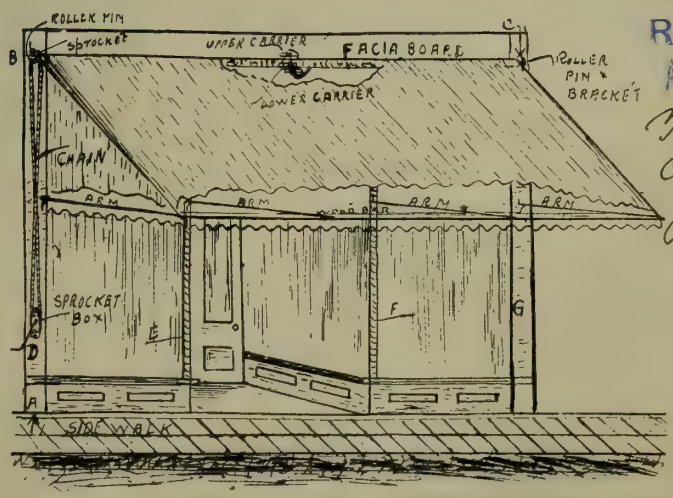
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OUR HARDWARE SHELF BOX is selling itself. Write for prices.

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Bennett Manufacturing Co.
PICKERING, ONT.



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Roller Awnings

Why not use an up-to-date Roller Awning, instead of your old-style, loose-pulley affair? You would get 50% more wear, and 300% more ease and comfort in operating. We can fit your premises with correct measurement. Can use your old frame and add a roller with new cover.

Use diagram above for measurement. Our 50-foot Roller Awning (or less) is operated by sprocket and chain by one man easily.

WM. BARTLETT & SON, 16 Adelaide St. West, TORONTO.

FINANCE AND INSURANCE

THE past year was unprofitable for fire insurance companies doing business in Canada. Practically all of them showed an absolute loss for the year's work, and in many cases the loss was double the total amount received on premiums. One of the most conservative companies in accepting risks, paid out in fire losses $227.42 for every hundred dollars received. The number whose losses ran from 110 per cent. to 140 per cent. of their receipts from premiums, comprises practically all the companies doing a big business here. The figures are given, too, without including the running expenses of the companies, which would average thirty per cent. of the premiums. In this reckoning, account has to be taken of the extraordinary fire losses in Toronto last year. But we have the statement of a general agent of one of the big companies in Montreal, that the losses in Montreal average up with those for the rest of Canada.

* * *

If these conditions continue it will be a bad outlook for men who carry heavy insurance. The withdrawal of the foreign companies from Canada would be a rather drastic means of supporting home industry. It would simply mean that these companies could not do a profitable business here at anything like the rates they now charge. If they cannot, it is certain that local companies can not either. The result would be an inevitable raising of rates.

Much depends on the report which the present year will show. If 1905 presents as disastrous a record as 1904, a stiffening of rates will be inevitable. Insurance companies cannot and will not dissipate their profits from other countries in paying deficits here.

* * *

There are only two logical outcomes of such a state of affairs. There is either an increase in rates or improving of risks. There can be no doubt as to which horn of the dilemma should be seized. Definite steps must be taken to lessen the risks. In up-to-date factories automatic sprinklers are now being installed. The more general these become the quicker will the rates come down. The cost of these will soon be made up by the difference in the premiums that will follow their general adoption.

* * *

The Manufacturers' Association is doing a good work in establishing a department of insurance, with an expert at its head. What is required more than anything else at the present time is a systematic investigation of the conditions obtaining in the insurance world. Undoubtedly risks can be improved if a united effort is made. The Manufacturers' Association is in a peculiarly strong position to carry on a general campaign in this direction.

* * *

Messrs. Cowdry Bros., MacLeod, Alta., have sold their private banking business to the Canadian Bank of Commerce, who are to open a branch at MacLeod immediately. The bank will also open at Lethbridge, Alta, on 27th instant.

* * *

A bill to incorporate the Sovereign Fire Insurance Company was passed by the Dominion Parliament recently. The incorporators are: William Dineen, Robert E. Menzie, John T. Hornibrook, Edmund E. Sheppard and Josiah B. King, Toronto. The capital stock is placed at $2,000,000. Before the company commence business, $650,000 must be paid up in cash, and each succeeding year for three years, $15,000 in cash. The head office will be in Toronto.

* * *

The contractors for the new Government mint at Ottawa have commenced operations. Excavations will be begun as soon as the weather permits. The building will be a handsome and substantial structure and will be in keeping with the rest of the public buildings in the capital. Langdon & Sullivan are the contractors.

* * *

INDEPENDENT telephone companies continue to extend their sphere of influence. The growth of these is being watched with the closest attention by the business men of the country. The close monopoly which the Bell company has had on the telephone business has been felt to be unendurable. It is not so much the positive excessive rates that this company charges though this is grievance enough in most cases, but the objection is to any concern having the whole decision of price and quality in its control. The Bell Telephone Co. has pursued with increasing vigor and persistence every independent company which has raised its head in Canada or the United States. It has practically assumed the position that no such company has a right to exist. Every possible obstacle has been thrown in the way of the smaller company by refusing them connections and holding the railway companies up to iron-clad agreements not to admit any such telephone in any of their offices. In spite of this, the independent companies are expanding and thriving. Every new system that is installed strengthens the general movement. It should ensure better terms and better service, at least, from the old company.

* * *

PROSPEROUS BANKS.

The News has made the following calculations: "The increases shown in the business and condition of the Canadian banks in the last ten years were as follows:

Increase in paid-up capital—	$18,371,877	30 p.c.
Increase in reserve fund	$26,601,630	96 p.c.
Increase in circulation	$32,131,774	99 p.c.
Increase in deposits	$310,146,126	160 p.c.
Increase in current loans	$235,288,103	120 p.c.

"I never meet Bender on the street any more."

"No, he can't come out."

"Is he sick?"

"Not exactly. You see, women's coats are so masculine looking this Spring that Bender's wife wears his and he hasn't any."

* * *

"Yes, Mrs. Goso was cured at last, after the doctors had given her up."

"You don't say."

"Indeed, yes. They cured her by mental suggestions."

"How did they do it?"

"When it seemed that all hope was gone her mother came into the room and told her that Silx & Wullens were advertising $50 bonnets for $14.99 for that day only."

WESTERN ASSURANCE COMPANY. Incorporated 1851

FIRE AND MARINE

Head Office Toronto, Ont.

Capital - $1,500,000.00
Assets, over - - 3,300,000.00
Annual Income - 3,890,000.00

HON. GEO. A. COX, President.
J. J. KENNY, Vice-President and Man. Director.
C. C. FOSTER, Secretary.

THE CANADIAN BANK OF COMMERCE

Paid-up Capital, - - $8,700,000
Rest, - - - - - $3,000,000

HEAD OFFICE: TORONTO, CANADA

HON. GEO. A. COX, Pres. B. E. WALKER, General-Manager.

LONDON, ENG., 60 Lombard St., E.C. S. Cameron Alexander, Manager.
NEW YORK, N.Y., 16 Exchange Place, Wm. Gray and H. B. Walker, Agents.

TRAVELLERS' LETTERS OF CREDIT

The Travellers' Letters of Credit issued by this Bank are a great convenience to Travellers. They are available in all parts of the world, and the holder is enabled, without risk or difficulty, to obtain such sums as he requires at any point in his journey.

BANK MONEY ORDERS
AT THE FOLLOWING RATES:

$5 and under ..... 3 cents
Over $5 and not exceeding $10..... 6 cents
" 10 " " 30.....10 cents
" 30 " " 50.....15 cents

These Orders are **Payable at Par** at any office in **Canada** of a **Chartered Bank** (Yukon excepted), and at the principal banking points in the **United States.**

Negotiable at a fixed rate at The Canadian Bank of Commerce, London, Eng.

Money

CAN BE SAVED BY MEANS OF AN ENDOWMENT POLICY.

YOU CAN ONLY SECURE SUCH A POLICY WHILE YOU ARE IN GOOD HEALTH.

Pamphlets and Full Particulars regarding the New Accumulation Endowment Policy sent on application.

Confederation Life ASSOCIATION.

W. H. BEATTY, PRESIDENT.
W. C. MACDONALD, ACTUARY. J. K. MACDONALD, MANAGING DIRECTOR.

HEAD OFFICE, - TORONTO, CANADA.

CAPITAL PAID UP, - - $1,000,000.
RESERVE FUND, - - 1,000,000

THE METROPOLITAN BANK.

DIRECTORS
R. H. WARDEN, D.D., President S. J. MOORE, Esq., Vice-President
D. E. THOMSON, Esq., K.C. His Honor W. MORTIMER CLARK, K.C
THOS. BRADSHAW, Esq. JOHN FIRSTBROOK, Esq.

HEAD OFFICE, - TORONTO.
W. D. ROSS, GENERAL MANAGER.

GENERAL BANKING BUSINESS TRANSACTED

SAVINGS DEPARTMENT
at all Branches.
ACCOUNTS SOLICITED
Drafts Bought and Sold.
Letters of Credit Issued.

BRITISH AMERICA ASSURANCE COMP'Y
FIRE AND MARINE.
Incorporated 1833

CASH CAPITAL, $850,000.00.
TOTAL ASSETS, $2,043,678.59.
LOSSES PAID SINCE ORGANIZATION, $25,868,544.80.

HEAD OFFICE, - BRITISH AMERICA BUILDING, Cor. Front and Scott Sts., Toronto.

HON. GEO. A. COX, President. J. J. KENNY, Vice-President and Managing Director
P. H. SIMS, Secretary.

Neglect of Nothing

And Studying Everything which tends towards Perfection has placed our goods among the Leaders Everywhere.

Ready Roofing, Sheathing and Black Diamond Tarred Felts, Building Papers, Fibre and Manilla Wrappings, etc.

Ask for our quotations——they will interest you.

FELT FACTORY
Harbour and Logan Sts., MONTREAL

PAPER MILLS
JOLIETTE, QUE.

ALEX. McARTHUR & CO., LIMITED
82 McGILL STREET, - MONTREAL

CURRENT MARKET QUOTATIONS.

April 14, 1905.

These prices are for such qualities and quantities as are usually ordered by retail dealers on the usual terms of credit, the lowest figures being for larger quantities and prompt pay. Large cash buyers can frequently make purchases at better prices. The Editor is anxious to be informed at once of any apparent errors in this list, as the desire is to make it perfectly accurate.

METALS.

TIN.

Lamb and Flag and Straits—	
56 and 28-lb. ingots, 100 lb.	$32 00 $33 00

TINPLATES.

Charcoal Plates—Bright.

	Per box.
M.L.S., equal to Bradley—	
I C, usual sizes	$6 50
I X "	8 00
I X X "	9 50
Famous, equal to Bradley—	
I C	6 50
I X	8 00
I X X	9 50
Raven and Vulture Grades—	
I C, usual sizes	4 25
I X "	5 00
I X X "	5 75
I X X X "	6 50
"Dominion Crown Best"—Double Coated, Tissued.	Per box.
I C	5 50
I X	6 50
I X X	7 50
Allaway's Best"—Standard Quality.	
I C	4 50
I X	5 50
I X X	6 50

Coke Plates—Bright.

Bessemer Steel—	
I.C., usual size, 14x20	3 50
I.C., special sizes, base	3 75
20x28	7 50

Charcoal Plates—Terne

Dean or J. G. Grade—	
I.C., 20x28, 112 sheets	7 50
IX., Terne Tin	10 50

Charcoal Tin Boiler Plates.

Cookley Grade—	
X X, 14x56, 50 sheet bxs.	
" 14x60, " }	7 00
" 14x65, "	

Tinned Sheets.

72x30 up to 24 gauge	7 25 7 50
" " 26 "	7 75 8 00

IRON AND STEEL.

	Montreal.	Toronto.
Common bar, per 100 lb	1 80	1 80
Forged iron "		2 05
Refined " "	2 20	2 05
Horseshoe iron "	2 02½	
Hoop steel, 1½ to 3 in. base		
Sleigh shoe steel "	1 97½	
Tire steel	1 07½	
T. Firth & Sons, tool steel—		
Speedicut		0 60
Annealed speedicut		0 65
Self-hardening		0 36
Best tool steel		0 12
Warranted		0 09
Best sheet steel		0 12
B. K. Morton & Co.—		
"Alpha" high speed		0 65
" annealed		0 70
"M" Self-hardening		0 50
"J" quality		0 18
"I" "		0 14
"BC" "		0 09
Jonas & Colver's tool steel	0 10	0 20
" "Novo"		0 65
" " annealed		0 70
Chas. Leonard	0 08	0 09
Crucible Steel Co.—		
" Rex high speed steel	0 65	0 75
" Self-hardening	0 45	0 50
Crucible Special		0 17
" Silver steel		0 13
" Black Diamond	0 10	0 11
Sanderson's Crucible steel	0 08	0 09
" Superior "	0 12	0 13

BABBIT METAL.

Syracuse Smelting Works:

Aluminum, genuine	0 45
Government, "	0 44
Tough, "	0 40
Hard, "	0 40
Dynamo	0 30
Special	0 25
Maganese	0 18
Car Box	0 17
Extra	0 13
No. 1	0 10
No. 2	0 07
No. 3	0 05½

Large orders subject to discounts.

The Canada Metal Co.:

Imperial, genuine,	0 40
Metallic	0 30
Hercules	0 20
Star	0 15
No. 1	0 12
No. 2	0 10
No. 3	0 06
No. 4	0 05

BLACK SHEETS.

	Montreal.	Toronto
10 gauge	2 30	2 30
12 and 14 gauge	2 25	2 35
17 "	2 20	2 40
22 to 24 gauge	2 05	2 50
26 "	2 10	2 65
28	2 15	2 70

COPPER WIRE.

Discount, 50 per cent.

CANADA PLATES.

Ordinary	2 50
All bright	3 75
Galvanized Canada Plates—	

J. C. M. 3 Crowns

16 x 21 x 60	3 33
18 x 24 x 52	3 33
18 x 24 x 60	3 56

	Ordinary.	Dom. Crown.
18x24x52	4 25	4 35
60	4 50	4 60
20x28x80	8 50	8 70
" 94	9 00	9 20

GALVANIZED SHEETS.

	Fleur-de-Lis.	Gordon Crown.
16 to 20 gauge	3 40	
22 to 24 gauge	3 50	3 50
26 "	3 75	3 75
28 "	4 00	4 15

	Comet Bell.	Queen's Head
16 to 20 gauge	3 40	
22 to 24 gauge	3 45	3 65
26 "	3 70	3 90
28 "	3 95	4 15

American brands, $3.90 for 10¾ oz.
Less than case lots 10 to 15c. extra.

CHAIN.

Proof coil, 3-16 in., per 100 lb.	7 00	10 00
" ¼ "		5 60
" 5-16 "		4 45
" ⅜ "		3 85
" 7-16 "		3 70
" ½ "		3 55
" 9-16 "		3 45
" ⅝ "		3 35
" ¾ "		3 25

Halter, kennel and post chains, 40 to 40 and 5 per cent.

Cow ties	40 p.c.
Tie out chains	65 p.c.
Stall fixtures	35 p.c.
Trace chain	45 p.c.

Jack chain, iron, single and double, discount 35 p.c. [count 40 p.c.

Jack chain, brass, single and double, dis-

COPPER.

	Ingot.	Per 100 lb.
Casting, car lots	16 25	16 5)

Bars.

Cut lengths, round, ½ to ⅝ in.	21 00	23 00
" round and square,		
Cut 1 to 2 inches	21 00	23 00

Sheet.

Plain, 16 oz., 14x48 and 14x60	21 00
Plain, 14 oz.	22 00
Planished copper sheet	24 00
Planished	32 00

Braziers' (in sheets).

4x6 ft., 25 to 30 lb. each, per lb.	0 22
" 35 to 45 " "	0 21
" 50-lb. and above "	0 20

BOILER AND T.K. PITTS.

Plain tinned, Spun } 41½ per cent. off list.

BRASS.

Rod and Sheet, 14 to 30 gauge, 10 per cent.

Sheets, hard-rolled, 2x4	0 23
Tubing, base, per lb.	0 23½

ZINC SPELTER.

Foreign, per 100 lb	7 00	
Domestic " "	6 75	7 00

ZINC SHEET.

5-cwt. casks	7 00
Part casks	7 25

LEAD.

Imported Pig, per 100 lb	3 50	3 75
Bar, " "		4 80
Sheets, 2½ lb. sq. ft., by roll		0 06½
Sheets, 3 to 6 lb. "		0 06

NOTE.—Cut sheets ½c. per lb., extra. Pipe, by the roll, usual weights per yard, lists at 7c. per lb. and 35 p.c dis. f.o.b. Toronto.

NOTE.—Cut lengths, net price, waste pipe 8-ft lengths, lists at 8c.

ANTIMONY.

Cookson's per lb.	0 09½

SHOT.

Common, $6.50 per 100 lb.; chilled, $7.00 per 100 lb.; buck, seal and ball, $7.50. Discount, 15 p.c. Prices are f.o.b. Toronto, Hamilton, Montreal, St. John and Halifax. Terms, 2 p.c. for cash in thirty days.

PLUMBING GOODS.

BATH TUBS.

Zinc	6 00
Copper, discount 20 per cent. off revised list.	

BATHS.

Standard Ideal Enameled.

5½-ft.	2½	in. rolled rim,	1st quality		21 25
5½	"	"	"	2nd "	17 25
5½	3	"	"	1st "	23 60
5½	"	"	"	2nd "	19 00
5	2½	"	"	1st "	18 40
5	"	"	"	2nd "	15 80
5	3	"	"	1st "	20 75
5	"	"	"	2nd "	17 25
Plate 116 D, lavatories			1st quality		8 90
" 116 D,			"	2nd "	7 50
" 118 D,			"	1st "	5 70
" 118 D,			"	2nd "	4 80
" 120 D,			"	1st "	5 60
" 120 D,			"	2nd "	4 70
" 122 D,			"	1st "	5 40
" 122 D.			"	2nd "	4 50
Sinks 18 x 30 in flat rim,			A quality		2 75
" " " "			B "		2 50

IRON PIPE.

Black pipe—	Per 100 feet.
⅛ inch	2 75
¼ "	2 04
⅜ "	2 06
½ "	2 30
¾ "	2 88
1 "	4 12
1¼ "	5 62
1½ "	6 75
2 "	9 00

Galvanized pipe—	
¼ inch	2 86
⅜ "	2 89
½ "	3 14
¾ "	4 02
1 "	5 77
1¼ "	7 88
1½ "	9 45
2 "	12 60

Malleable Fittings—Canadian discount 35 per cent. American discount 20 to 25 per cent.

Cast Iron Fittings—Standard bushings 50 and 10 and 10 per cent.; headers, 60; flanged unions and lipped, 60 and 5; malleable bushings, 65; nipples, up to 6 in., 75.

PLUMBERS' BRASS GOODS.

Standard Compression work, dis. 60 p.c.
Cushion work, discount 50 per cent.
Fuller work, discount 65 per cent.
6 dozen lots and over of the above, extra discount 10 per cent.
Lever handle Stops and Waste, discount 55 per cent. With in lots of 2 dozen and over an extra discount of 10 per cent.
J.M.T. Globe, Angle and Check Valves, discount 55 per cent.
Standard Globe, Angle and Check Valves, discount 65 per cent.
Kerr's special standard globes and angles, discount 55 per cent.
Kerr's Jenkin disc, copper-alloy disc and heavy standard valves, discount 55 percent.
Kerr's standard brass checks, discount 55 p.c.
Kerr's standard brass disc steam radiator valves, discount 65 per cent.
Kerr's Jenkin disc, copper-alloy disc radiator valves, discount 65 per cent.
Kerr's quick-opening hot-water radiator valves, discount 65 per cent.
Weber's (Kerr) patent straightway gate valves, brass, discount 50 per cent.
Weber's (Kerr) patent straightway gate valves, I.B.B.M., discount 60 and 10 per cent.
J. M. T. Radiator Valves discount 55 per cent.
Standard Radiator Valves, discount 65 per cent.
Patent Quick-Opening Valves, discount 70 and 10 per cent.
No. 1 compression bath cock.....net 1 75
No. 4 " " 1 90
No .7 Fuller's " 2 20
No. 4½, " " 2 35
Patent Compression Cushion, basin cock, hot and cold, per doz., $31; 5 and 10 per cent. discount.
Patent Compression Cushion, bath cock, No. 2208 2 25
Square head brass cocks, discount 55 per cent
" " iron " " 60 "
Thompson Smoke-test Machine $25.00

RANGE BOILERS.

Copper, 30 gallon	" 22 00
" 35 "	" 24 00
" 40 "	" 28 00

Discount off copper boilers 15 per cent.

GALVANIZED IRON RANGE BOILERS.

Capacity. Gals.	Standard.	Extra heavy
12	4.50	6.50
18	4.75	6.75
24	4.75	6.75
30	5.00	7.50
35	6.00	8.50
40	7.00	9.50
52	11.00	14.00
66	18.00	20.00
82	21.00	24.00
100	29.00	34.00
120	34.00	40.00
144	47.00	55.00

American Steel & Wire Co.

New York Empire Building | **Montreal** N. Y. Life Building | **Chicago** The Rookery

BARBED WIRE GALVANIZED PLAIN WIRE PLAIN TWIST CABLE FENCING

Telegraph and Telephone Wire; Mattress, Broom, Weaving Wires of every description; Rail Bonds, Bale Ties, Special Wires for all purposes, Springs, Horse Shoes, Wire Rope, Cold-drawn Steel Shafting.

SOIL PIPE AND FITTINGS.

Med. and Extra heavy pipe and fittings, dis. 60 per cent.
7 and 8-in. pipe, discount 40 and 5 per cent.

SOLDER.

	Per lb
Bar, half-and-half, guaranteed	0 17½
Wiping	0 15½
Refined	0 16½

PAINTS AND OILS.

COLORS IN OIL.

1-lb. tins, pure.

Venetian red, per lb.	0 08
Chrome yellow	0 15
Golden ochre	0 08
French "	0 06
Marine black	0 04
Chrome green	0 10
French permanent green	0 13
Signwriters' black	0 15

WHITE LEAD.

	Per 100 lb.	
Pure	4 60	4 75
No. 1	4 35	4 50
No. 2		4 30
No. 3		3 37½
No. 4		3 35
Munro's Select Flake White		4 75
Elephant and Decorators' Pure		4 75
Monarch		5 00
Decorator's Pure		4 75
Essex Genuine		4 25
Sterling Pure		5 00
Island City Pure		5 00
Ramsay's Pure Lead	4 75	5 00
Ramsay's Exterior	4 50	4 75

RED LEAD.

Genuine, 560 lb. casks, per cwt	$4 50
Genuine, 100 lb. kegs, "	4 75
No. 1, 560 lb. casks, per cwt	4 00 4 25
No. 1, 100 lb. kegs, per cwt	4 75

WHITE ZINC.

Extra Red Seal	0 06	0 08
French V. M.	0 06½	0 07
Lehigh	0 06	0 06½
Pure		0 07½
No. 1		0 06½
No. 2		0 05½

DRY WHITE LEAD.

Pure, casks	4 50
Pure, kegs	4 75
No. 1, casks	4 00
No. 1, kegs	4 25

PREPARED PAINTS.

In ¼, ½ and 1-gallon tins.

Pure, per gallon	1 20
Second qualities, per gallon	1 00
Barn (in bbls.)	0 60 0 90
The Sherwin-Williams paints	1 35
Canada Paint Co.'s pure	1 25
Toronto Lead & Color Co's pure	1 25
Sanderson Pearcy's pure	1 20
Standard Co.'s "New Era."	1 30
"Globe" barn 60	70
Francis-Frost Co.'s "Ark" B'd	1 25
" British Navy deck	1 50
Henderson & Potts's "Anchor"	1 35
Ramsay's paints, Pure, per gal.	1 20
" Thistle, "	1 00
" Outside, bbls	0 55 0 65
Island City House Paint	1 25
" Floor "	1 25
Sterling House Paint	1 20
" Floor "	1 10
Stewart & Wood's pure	1 20
National	1 05

PARIS GREEN.

Petroleum, barrels, per lb.	0 13½
Arsenic, kegs	0 13½
50 and 100-lb. drums	0 14
25-lb. drums	0 14½
1-lb. paper boxes	0 15
½-lb. paper boxes	0 17

Terms—2 per cent. off 30 days, or 90 days

PUTTY.

Bulk in bbls.	1 50
Bulk in less quantity	1 80
Bladders in bbls.	1 65 1 75
Bladders in kegs, boxes or loose	1 90
25-lb. tins	1 80
12½ lb. tins	2 05
Bladders in bulk or tins less than 100 lb.	1 85

VARNISHES.

	In 5-gal. lots. Per gal.	Net.
Carriage, No. 1	1 50	1 60
Pale durable body	4 10	4 25
" rubbing	2 85	3 20
Gold size, japan	1 50	1 60
No. 1 brown japan	0 85	0 90
Elastic oak		1 50
Furniture, extra	1 10	1 25
" No. 1	0 90	1 00
Hard oil finish	1 35	1 50
Light oil finish	1 60	1 70
Damar	1 75	2 00
Shellac, white	2 40	2 50
" orange	2 30	2 40
Turpentine, brown japan	1 10	1 20
" black japan	1 10	1 20
" " No. 1.	0 85	0 90
Elastilite varnish, 1 gal. can, each		2 00
Granitine floor finish, per gal		2 75
Maple Leaf coach enamels; size 1, $1.20; size 2, 70c.; size 3, 40c. each.		
Sherwin-Williams' kopal varnish, assorted case, from to 1 gal., $2.50.		

GLUE.

Common	0 08	0 08½
French medal	0 10	0 14
White, extra	0 18	0 22
Gelatine		
Strip	0 18	0 20
Coopers	0 19	0 20
Huttner		
Ground	0 12	0 16
Cologne, genuine		

HARDWARE.

AMMUNITION.

Cartridges.

B. B. Caps Dominion, 50 and 5 and 25 per cent. American $2.00 per 1000.
C. B. Caps American, $2.60 per 1000.
Rim Fire Pistol, discount 30 p.c., American.
Rim Fire Cartridges, Dominion, 50 and 5 p.c.
Central Fire, Military and Sporting, American, add 20 per cent. to list. B.B. Caps, discount 40 per cent., American.
Central Fire Pistol and Rifle, list net Amer.
Central Fire Cartridges, pistol sizes, Dominion, 30 per cent.
Central Fire Cartridges, Sporting and Military, Dominion, 15 per cent. American 10 per cent. advance on list.
Loaded and empty Shells, "Trap" and "Dominion" grades, 25 per cent. discount. American 20 per cent. discount. Rival and Nitro, 10 per cent. advance on list.
Brass Shot Shells, 55 per cent.
Primers, Dom., 30 per cent.; American, $1.75

Wads.	per lb.
Best thick brown or grey felt wads, in ½-lb. bags	$0 70
Best thick white card wads, in boxes of 500 each, 12 and smaller gauges	0 29
Best thick white card wads, in boxes of 500 each, 10 gauge	0 35
Thin card wads, in boxes of 1,000 each, 12 and smaller gauges	0 20
Thin card wads, in boxes of 1,000 each, 10 gauge	0 25

Chemically prepared black edge grey cloth wads, in boxes of 250 each—	Per M.
11 and smaller gauge	0 60
9 and 10 gauges	0 70
7 and 8 "	0 90
5 and 6 "	1 10

Superior chemically prepared pink edge, best white cloth wads, in boxes of 250 each—	
11 and smaller gauge	1 15
9 and 10 gauges	1 40
7 and 8 "	1 65
5 and 6 "	1 90

ADZES.

Discount 22½ per cent.

ANVILS.

Wright's, 80-lb. and over	0 10½
Hay Budden, 80-lb. and over	0 09½
Brook's, 80-lb. and over	0 11½

APPLE PARERS.

Woodyatt Hudson, per doz., net 4 50

AUGERS.

Gilmour's, discount 60 per cent. off list.

AXES.

Chopping Axes		
Single bit, per doz.	7 00	10 00
Double bit, "	10 00	18 00
Bench Axes, 40 per cent.		
Broad Axes, 25 per cent.		
Hunters' Axes	5 50	6 00
Boys' Axes	6 25	7 00
Splitting Axes	7 00	12 00
Handled Axes		10 00

AMERICAN AXE AND TOOL CO.

Red Ridge, boys', handled	5 75
" hunters	5 25

Underhill American Bench Axes, 40 p.c.

AXLE GREASE.

Ordinary, per gross	6 00	7 00
Best quality	10 00	12 00

BELLS.

Hand.

Brass, 60 per cent.
Nickel, 55 per cent.

Cow.

American make, discount 63⅔ per cent.
Canadian, discount 45 and 50 per cent.

Door.

Gongs, Sargant's 5 50 8 00
" Peterboro', discount 50 and 10 per cent. off new list.

Farm.

American, each 1 35 3 00

House.

American, per lb. 0 35 0 40

BELTING.

Extra, 60 per cent.
Standard, 60 and 10 per cent.
No. 1, not wider than 6 in., 60, 10 and 10 per cent.
Agricultural, not wider than 4 in., 75 per cent.

BITS.

Auger.

Gilmour's, discount 60 per cent.
Rockford, discount 50 and 10 per cent.
Jennings' Gen., net list.

Car.

Gilmour's, 47½ per cent.

Expansive.

Clark's, 40 per cent.

Gimlet.

Clark's, per doz	0 65	0 90
Diamond, Shell, per doz.	1 00	1 50
Nail and Spike, per gross	2 25	5 20

BLIND AND BED STAPLES.

All sizes, per lb. 0 07½ 0 12

BOLTS AND NUTS

	Per cent.
Carriage Bolts, common (¾ list	
" " ⅝ and smaller	60 and 10
" " 7-16 and up	55 and 5
" " full sq. ($2.40 list)	60
" " Norway Iron ($3 list)	60
Machine Bolts, all sizes, ⅝ and less	55
Machine Bolts, 7-16 and up	55 and 5
Plough Bolts	55 and 5
Blank Bolts	55 and 5
Bolt Ends	55 and 5
Sleigh Shoe Bolts	70
Coach Screws, cone point	70 and 5
Nuts, square, all sizes, 4c. per lb. off.	
Nuts, hexagon, all sizes, 4½c. per lb. off.	
Stove Rods per lb., 5½ to 6c.	

BOOT CALKS.

Small and medium, ball per M.	4 25
Small heel "	4 50

BRIGHT WIRE GOODS.

Discount 62½ per cent.

BUTCHERS' CLEAVERS.

German per doz.	6 00	9 00
American "	12 00	18 00

BUTCHER KNIVES.

Bailey's per doz.	0 60	6 80

BUILDING PAPER, ETC

Tarred Felt, per 100 lb.	1 85
Ready roofing, 2-ply, not under 45 lb. per roll	0 90
Ready roofing, 3-ply, not under 65 lb., per roll	1 15
Carpet Felt per ton	15 00
Heavy Straw Sheathing per ton	35 00
Dry Sheathing per roll, 400 sq. ft.	
Tar " 400 "	
Dry Fibre " 400 "	
Tarred Fibre " 400 "	
O. K. & I. X. L " 400 "	
Resin-sized " 400 "	
Oiled Sheathing " 600 "	
Oiled " 400 "	
Root Coating, in barrels per gal.	
Roof " small packages "	
Refined Tar per barrel	
Coal Tar "	
Coal Tar, less than barrels per gal.	0 15
Roofing Pitch per 100 lb.	0 85 0 90
Slater's felt per roll	0 00

BULL RINGS.

Copper, $1.30 for 2½-inch, and $1.70

BUTTS.

Wrought Brass, net revised list.

Cast Iron.

Loose Pin, discount 60 per cent

Wrought Steel.

Fast Joint, discount 70 to 70 and 5 per cent.
Loose Pin, discount 70 to 70 and 5 per cent.

CARPET STRETCHERS.

American per doz.	1 00	1 50
Bullard's "		6 50

CASTORS.

Bed, new list, discount 55 to 57½ per cent.
Plate, discount 52½ to 57½ per cent.

CATTLE LEADERS.

Nos. 32 and 33 per gross 7 50 8 50

CHALK.

Carpenters' Colored, per gross	0 45	0 75
White lump per cwt.	0 60	0 65
Red	0 05	0 06
Crayon per gross	0 14	0 18

CHISELS.

Socket, Framing and Firmer.

Broad's, discount 70 and 5 per cent.
Warnock's, discount 70 per cent.
P. S. & W. Extra, discount 60 and 10 per cent.

FOODS—STOCK.

Colonial Stock Foods, 50c. packages, per doz	$4 00
" " " 25c. pkgs., "	2 00
" " " 10c. " "	75
" " " 25-lb. pail, each	1 80
Poultry Foods, 25c. packages	1 25
Cough Powders, per doz.	1 25
Worm " "	1 25
Internation 1 Stock Foods, $1 packages, per doz.	8 00
International Stock Foods, per pail	2 75
" " per bbl.	10 50
" Poultry " $1 pkgs., per dz	8 00
" Worm Powders, 50c. pkgs.	4 00
" Pine Healing Oil, per doz	8 00
" Pheno-Chloro, $1 pkgs., per doz	8 00
" Hoof Ointment	8 00
" Compound Absorbent	16 00

Also 25c. pkgs. at $2 per doz. 50c. pkgs. 4 per doz.

CLOTHES REELS.

Davis Clothes Reels, dis. 40 per cent

Paterson's Wire Edged Ready Roofing

Fire-proof and Sanitary :
Easy to put on :
Hard to wear out :
Don't cost much.

You have hundreds of Customers who require that kind of Roofing Material.

The Paterson Mfg. Co., Limited

Toronto and Montreal.

CONDUCTOR PIPE.

Plain or Corrugated.

2-inch	per 100 feet	3 00
3 "	" "	4 00
4 "	" "	5 25
5 "	" "	6 75
6 "	" "	9 00

CRADLES, GRAIN.

Canadian, discount 20 to 25 per cent.

CROSSCUT SAW HANDLES.

S. & D., No. 3	per pair	0 15
S. & D., " 5	"	0 22½
S. & D., " 6	"	0 15
Boynton pattern	"	0 20

DOOR SPRINGS.

Torrey's Rod	per doz.	1 75
Coil, 9 to 11 in	"	0 95 1 65
English	"	2 00 4 00

DRAW KNIVES.

Coach and Wagon, discount 50 per cent.
Carpenters' discount 70 per cent.

DRILLS.

Hand and Breast.

Millar's Falls, per doz., net list.

DRILL BITS.

Morse, discount 37½ to 40 per cent.
Standard, discount 50 and 5 to 55 per cent.

FAUCETS.

Common, cork-lined, discount 35 per cent.

EAVETROUGHS.

10-inch per 100 ft. 10 00

ELBOWS (stovepipe.)

5 and 6-inch, common	per doz.	1 20
7-inch	"	1 35

Polished, 15c. per dozen extra.

ESCUTCHEONS.

Discount 50 and 10 per cent., new list

ESCUTCHEON PINS.

Iron, discount 40 per cent.

FACTORY MILK CANS.

Discount off revised list, 40 per cent.

FILES AND RASPS.

Great Western	70 and 10	per cent.
Arcade	70 " 10	"
Kearney & Foot	70 " 10	"
Disston's	70 " 10	"
American	70 " 10	"
J. Barton Smith	70 " 10	"
McClellan	70 " 10	"
Eagle	70 " 10	"
Nicholson, 60 and 10 to 60, 10 and 5		"
Royal	80	"
Globe	70 to 75	"

Black Diamond, 60 and 10 to 60, 10 and 5 per cent.
Jowitt's, English list, 25 to 27½ per cent.
Nicholson File Co.'s "Simplicity" file handle, per gross 85c. to $1.50

GLASS.

Window. Box Price.

Size United Inches.	Star Per 50 ft.	Star Per 100 ft.	D. Diamond Per 50 ft.	D. Diamond Per 100 ft.
Under 26	....	3 80	....	5 06
26 to 40	....	4 00	....	5 44
41 to 50	....	4 50	....	6 56
51 to 60	....	4 75	....	7 50
61 to 70	....	5 00	....	8 62
71 to 80	....	5 30	....	9 38
81 to 85	....	....	....	10 75
86 to 90	....	....	....	12 30
91 to 95	....	....	....	15 00
96 to 100	....	....	....	18 00
96 to 100	....	....	....	18 00

GAUGES.

Marking, Mortise, Etc.

Stanley's, discount 50 to 55 per cent.

Wire Gauges.

Winn's, Nos. 26 to 33	each	1 65 2 40

GILLETT'S POWDERED LYE.

1-case, $3.70; 3-case, $3.60; 5-case and over, $3.50.

HALTERS.

Rope, ⅜-inch	per gross	9 00
Rope, ½ "	"	12 00
Rope, ⅝ to ¾-inch	"	14 00
Leather, 1-inch	per doz.	4 00
Leather, 1¼ "	"	5 20
Web	"	2 45

HAMMERS.

Nail.

Maydole's, discount 5 to 10 per cent. Canadian discount 25 to 27½ per cent

Tack.

Magnetic	per doz.	1 10 1 20

Sledge.

Canadian	per lb.	0 07 0 08½

Ball Pean.

English and Canadian, per lb.		2½ 0 25

HANDLES.

Axe, 2nd growth, per doz. net		3 00 4 00
Store door	per doz.	1 00 1 50

Fork.

C. & B., discount 40 per cent., revised list.

Hoe.

C. & B., discount 40 per cent., revised list.

Saw.

American	per doz	1 00 1 25

Plane.

American	per gross	3 15 3 75

Hammer and Hatchet.

Canadian, discount 40 per cent.

HANGERS.

	doz.	pairs.
Steel barn door	8 00	10 00
Stearns, 4-inch	....	4 50
" 5-inch	....	6 00
Zenith	....	9 00
Lane's covered—		
No. 11, 5-foot run	....	8 40
No. 11½, 10-foot run	....	10 80
No. 12, 10-foot run	....	12 60
No. 14, 15-foot run	....	21 00
Steel, covered	4 00	11 00
" track, 1 x 3-16 in(100 ft)	....	3 75
" " 1¼ x 3-16 in(100 ft)	....	4 75

HARVEST TOOLS.

Discount 60 per cent.
S. & D. lawn rakes, Dunn's, 40 off.
" sidewalk and stable scrapers, 40 off.
" Maple Leaf and Premiums saw sets, 40 off.
" saw swages, 40 off.

HATCHETS.

Canadian, discount 40 to 42½ per cent.

Shingle, Red Ridge 1, per doz		4 40
" 2, "		4 85
Barrel, Underhill		5 00

HAT ENAMEL.

Henderson & Potts' "Anchor Brand"

HINGES.

Blind, Parker's, discount 60 per cent.

Heavy T and strap, 4-in., per lb		0 06½
" " 5-in., "		0 06½
" " 6-in., "		0 06
" " 8-in., "		0 05½
" " 10-in., "		0 05½

Light T and strap, discount 65 and 5 per cent.
Screw hook and hinge—

6 to 10 in	per 100 lb.	4 50
12 in. up	"	3 25
Spring, No. 20, per gro. pairs		10 80

Spring, Woodyatt pattern, per gro., No. 5, $17.50; No. 10, $18; No. 20, $10.80; No. 120, $20; No. 51, $10; No. 50, $27.50.

HOES.

Garden, Mortar, etc., discount 60 per cent.

Planter	per doz.	4 00 4 50

HOLLOW WARE.

Tinned cast, 35 per cent.

HOOKS.

Cast Iron.

Bird cage	per doz.	0 50 1 10
Clothes line, No. 61	"	0 00 0 70
Harness	"	0 60 12 00
Hat and coat	per gro.	1 10 10 00
Chandelier	per doz.	0 50 1 00

Wrought Iron.

Wrought hooks and staples Canadian discount 60 per cent.

Wire.

Hat and coat, discount 60 per cent.

Belt	per 1,000	0 60

Screw, bright, discount 62½ per cent.

HORSE NAILS.

"P.B." Brand, 55 to 60 per cent.
"C" brand, 40, 10 and 7½ per cent. off list { Oval
M.R.M. Co. brand, 55 per cent. { head
"Monarch," 50 and 7½ per cent.
"Peerless" 50 per cent. dis.

HORSESHOES.

F.O.B. Montrea

"P.B." brand, new pattern, base		$3 50
M.R.M. Co. brand, base		3 65

Add 15c. Toronto, Hamilton, Guelph.

JAPANNED WARE.

50 per cent.

PICKS.

Star	per doz.	3 00 3 25

KETTLES.

Brass spun 7½ per cent. discount off new list.

Copper	per lb.	0 30 0 50

American, 60 and 10 to 65 and 5 per cent.

KEYS.

Lock, Canadian dis. 40 to 40 and 10 per cent.
Cabinet trunk and padlock

American	per gross	0 60

KNOBS.

Door, japanned and N.P., per doz		1 50 2 50
Bronze, Berlin	per doz.	2 75 3 25
Bronze, Genuine	"	6 00 9 00
Shutter, porcelain, F. & L. screw	per gross	1 30 2 00
White door knobs	per doz.	2 00

HAY KNIVES.

Net prices.

LAMP WICKS.

Discount, 60 per cent.

LADDERS, EXTENSION.

Waggoner Extension Ladders, dis. 40 per cent.

LANTERNS.

Cold Blast	per doz.	4 50
No. 3, "Wright's"	"	8 50
Ordinary, with O burner	"	4 00
Dashboard, cold blast	"	9 00
No. 0	"	5 75

Japanning, 50c. per doz. extra.

LEMON SQUEEZERS.

Porcelain lined	per doz.	2 20 5 60
Galvanized	"	1 87 3 85
King, wood	"	2 75 2 90
King, glass	"	4 00 4 50
All glass	"	0 50 0 90

LAWN MOWERS FOR 1905.

Woodyatt, 10½-in., 14-in. cut	$ 8 50 to	$11 00
Star, 9 -in.	" 6 00 to	6 50
Daisy, 8 -in.	" 5 25 to	5 75
Philadelphia, 7½-in.	" 6 00 to	7 50
Woodyatt, 10½-in., ball bearing	13 25 to	18 00
Grass Boxes	1 75 to	2 00
King Edw'd, 12-in., 14-in. cut	9 00 to	10 00

Horse Lawn Mowers, "Special."

Discount, 50 per cent., with freight concessions in quantity shipments.

Maxwell & Sons

10½-in. high wheel	0	10 00
9-in	5 50	6 25
8-in	4 90	5 50

Discount 50 per cent.

LOCKS.

Canadian, 50 to 50 and 10 per cent
Russell & Erwin, steel rim ..per doz. 2 25

Cabinet.

Eagle, discount 30 per cent.

Padlocks.

English and Am	per doz.	0 50 6 00

Eagle, discount 20 to 25 per cent.

MACHINE SCREWS.

Iron and Brass.

Flat head, discount 25 per cent.
Round head, discount 20 per cent.

MALLETS.

Tinsmiths'	per doz.	1 25 1 50
Carpenters', hickory,	"	1 25 3 75
Lignum Vitae	"	3 85 5 00
Caulking, each		0 60 2 00

MATTOCKS.

Canadian	per doz.	5 50 6 00

MEAT CUTTERS.

American, discoun 3½ per cent.
German, 15 per cen

Gem	each	1 15

MILK CAN TRIMMINGS.

Discount 25 per cent.

NAILS.

	Cut.	Wire.
2d	3 40	3 25
3d	3 05	2 90
4 and 5d	2 80	2 65
6 and 7d	2 70	2 55
8 and 9d	2 55	2 40
10 and 12d	2 50	2 35
16 and 20d	2 45	2 30
30, 40, 50 and 60d (base)	2 40	2 25

F.o.b. Toronto.
Steel cut nails 10c. extra.
Miscellaneous wire nails, discount 75 per cent.
Coopers' nails, discount 30 per cent.

NAIL PULLERS.

German and American	85	2 50
No. 1	85	
No 1573	75	

NAIL SETS.

Square, round and octagon, per gross	3 38	
Diamond	1 00	

POULTRY NETTING.

2-in. Mesh, 19 w.g., dis. 60 per cent.
2-in. Mesh 16 w.g. and heavier, 50 p.c.

OAKUM.

U. S. Navy	per 100 lb.	6 75
Plumbers	"	3 00

OILERS.

McClary's Model galvanized oil can, with pump, 5 gallon, per dozen		10 00

Davidson oilers, discount 40 per cent.
Zinc and tin, discount 50, 50 and 10 per cent
Copper per doz. 1 25 3 50
Brass " 1 50 3 50
Malleable, discount 25 per cent

GALVANIZED PAILS.

Dufferin pattern pails, discount 47½ per cent
Flaring pattern, discount 47½ per cent.
Galvanized washtubs, discount 47½ per cent

PIECED WARE.

Discount 40 per cent off list, June, 1899.
10-qt. flaring sap buckets, discount 40 per cent
6, 10 and 14-qt. flaring pails dis. 40 per cent.
Creamer cans, discount 40 per cent.

PICKS.

Per dozen		6 00 9 00

PICTURE NAILS.

Porcelain head	per gross	1 35 1 50
Brass head	"	0 40 1 00

PICTURE WIRE.

Tin and gilt, discount 75 per cent.

PINE TAR.

pint in tins	per gross	7 80
1 " "	"	9 60

PLANES.

Wood bench, Canadian discount 40 per cent., American discount 50 per cent.
Wood, fancy Canadian or America 37 40 per cent

A Great Line of Desks



Special Roll Top

$16.00

Did you ever see 60 different styles of desks in a row? We have them; but

The desk we want to sell you now is a $16.00 one.

Just think of it, $16.00 for a Roll Top Desk! Write for further particulars.

Remember we have 59 styles beside this.

The Office Specialty Mfg. Co., Limited

Factories: Newmarket

97-105 Wellington St. W. (near York), TORONTO

PLANE IRONS.

English ..... per doz.	2 00	5 00

PLIERS AND NIPPERS.

Button's genuine, per doz. pairs, discount 37½ to 40 per cent.

Button's imitation....per doz.	5 00	9 00
German ..... "	0 60	0 60

PRESSED SPIKES.

Discount 20 per cent.

PULLEYS.

Hothouse ....per doz.	0 55	1 00
Axle .... "	0 22	0 33
Screw .... "	0 22	1 00
Awning ..... "	0 35	2 50

PUMPS.

Canadian cistern	1 80	3 60
Canadian pitcher spout	1 40	2 10

PUNCHES.

Saddler s .. ..per doz.	1 00	1 85
Conductor's.....	3 00	15 00
Tinners', solid.....per set	....	0 72
" hollow.....per inch	....	1 00

RAKES.

Wood.....per doz. net 1 20 up.

RAZORS.

	per doz.	
Elliot's	4 00	18 00
Geo. Butler's & Co.'s.....	4 00	18 00
Boker's	7 50	11
" King Cutter	13 50	18 50
Wade & Butcher's.....	3 60	10 00
Carbo Magnetic.....	....	15 00
Griffon Barber's Favorite	....	10 75
Griffon No. 65.....	....	13 00
Griffon Safety Razors.....	....	13 50
Griffon Stropping Machines..	....	13 50
Lewis Bros " Klean Kutter"	8 50	10 50
Hindoo	10 50	14 00
Orgsteom's Swedish.....	3 50	10 00
Henckel's	7 50	20 00

Clauss, 50 and 10 per cent.
Clauss Strops, 50 and 10 per cent.

REGISTERS.

Discount 40 per cent.

RIVETS AND BURRS.

New List.

Iron Rivets, black and tinned, 60 and 10 and 10 per cent.
Iron Burrs, discount 60 and 10 and 10 p.c.
Copper Rivets, with usual proportion burrs, 45 per cent.
Copper Burrs only, discount 30 and 10 per cent.
Extras on Tinned or Coppered Rivets, ½-lb. packages 1c. per lb.; ¼-lb. packages 2c. lb.

RIVET SETS.

Canadian, discount 35 to 37½ per cent.

ROPE, ETC.

Sisal.....	0 11
Pure Manilla	0 14½
"British" Manilla.....	0 11
Cotton, 3-16 inch and larger 0 21	0 25
" 5-32 inch 0 25	0 27
" ⅛ inch 0 25	0 28
Russia Deep Sea	0 16
Jute.....	0 09
Lath Yarn, single	0 10
" double	0 10½
Sisal bed cord, 48 feet.....per doz.	0 65
" " 60 feet..... "	0 80
" " 72 feet..... "	0 95

RULES.

Boxwood, discount 70 per cent.
Ivory, discount 20 to 25 per cent.

SAD IRONS.

Mrs. Potts, No. 55, polished....per set	0 75
" No. 50, nickle-plated, "	0 80
Common, plain.....	4 50
" plated	5 50

SAND AND EMERY PAPER.

B. & A. sand, discount, 40 and 5 per cent
Emery, discount 40 per cent.
Garnet (Rurton's) 5 to 10 per cent. advance on list.

SAP SPOUTS.

Bronzed iron with hooks ....per 1,000	7 50
"Eureka" tinned steel, hooks	8 00

SAWS.

Hand, Disston's, discount 12½ per cent
S. & D, discount 40 per cent.
Crosscut, Disston's...per foot 0 35 0 55
S. & D., discount 35 per cent. on Nos. 2 and 3.

Hack, complete.....each	0 75	2 75
" frame only.....each	0 50	1 25

S. & D. solid tooth circular shingle, concave and band, discount 50 per cent.
" mill and ice, drag, discount 30 per cent
" cross-cut, discount 35 per cent.
" hand saws, butcher, disc't 40 per cent
" compass, pruning and back, discount 45 per cent.

" buck, New Century.....	$6 25
" No. 1 Maple Leaf.....	5 25
" " Happy Medium.....	4 25
" " Watch Spring.....	4 25
" " common frame.....	4 00

SASH WEIGHTS.

Sectional.....per 100 lb.	2 00	2 25
Solid ..... "	1 50	1 75

SASH CORD.

Per lb.....	0 28	0 30

SAW SETS.

	per doz.
Lincoln and Whiting	4 75
Hand Sets, Perfect	4 00
X-Cut Sets, "	7 50

SCALES.

Gurney Standard, 40 per cent.
Gurney Champion, 50 per cent.
Burrow, Stewart & Milne—
Imperial Standard, discount 40 per cent.
Weigh Beams, discount 35 per cent.
Champion Scales, discount 50 per cent.
Fairbanks standard, discount 35 per cent.
" Dominion, discount 55 per cent
" Richelieu, discount 55 per cent.
Warren's new Standard, discount 40 per cent.
" " Champion, discount 50 per cent.
" Weighbeams, discount 35 per cent.

SCREW DRIVERS.

Sargent's .....per doz.	0 65	1 00

SCREEN DOORS.

Common doors, 2 or 3 panel, walnut stained, 4-in. style.....per doz.	6 50
Common doors, 2 or 3 panel, yellow and green stained, 4-in. style....per doz.	6 75
Common doors, 2 or 3 panel, in natural colors, oil finish .....per doz.	8 75

3-in. style 20c. per dozen less.

SCREWS.

Wood, F. H., bright and steel, discount 87½ per cent.
Wood, R. H., bright, dis. 82½ per cent.
" F. H., brass, dis. 80 per cent.
" R. H., " dis. 75 per cent.
" F. H., bronze, dis. 75 per cent.
" R. H., " dis. 70 per cent.
Drive Screws, dis. 87½ per cent.

Bench, wood .....per doz.	3 25	4 00
" iron ..... "	4 25	5 00

Set, case hardened, dis. 60 per cent.
Square Cap, dis. 50 and 5 per cent.
Hexagon Cap, dis. 45 per cent.

SCYTHES.

Per doz. net.....	6 00	9 00

SCYTHE SNATHS.

Canadian, discount 40 per cent.

SHEARS.

Clauss, nickel, discount 80 per cent.
Clauss, Japan, discount 67½ per cent.
Clauss, tailors, discount 40 per cent.
Seymour's, discount 50 and 10 per cent.

SHOVELS AND SPADES.

Canadian, discount 45 per cent.

SINKS.

Cast iron, 16 x 24..... ...	0 85	
" 18 x 30.....	1 00	
" 18 x 36.....	1 40	

SNAPS.

Harness, German, discount 25 per cent.
Lock, Andrews'..... 4 50 11 50

SOLDERING IRONS.

1, 1½-lb..... per lb.	....	0 37
2-lb. or over ..... "	....	0 34

SQUARES.

Iron, No. 492 .....per doz.	1 90	2 25
" No. 493 ..... "	2 40	2 55
" No. 494 ..... "	3 25	3 40

Steel, discount 60 and 5 to 65 per cent.
Try and Bevel, discount 50 to 52½ per cent.

STAMPED WARE.

Plain, discount 75 and 12½ per cent. off revised list.
Retinned, discount 75 per cent. off revised list

STAPLES.

Galvanized		3 00
Plain		2 80

Coopers', discount 45 per cent.
Poultry netting staples, discount 40 per cent.

STOCKS AND DIES.

American discount 25 per cent.

STONE.

Washita .....per lb.	0 28	0 60
Hindostan ..... "	0 06	0 07
" slip ..... "	0 09	0 09
Labrador..... ..... "	....	0 13
" Axe..... "	....	0 15
Turkey ..... "	....	0 50
Arkansas..... "	....	1 50
Water-of-Ayr ..... "	....	0 10
Scythe .....per gross	3 50	5 00
Grind, 40 to 200 lb., per ton....	....	25 00
" under 40 lb., "		28 00
" 200 lb. and over		31 00

STOVEPIPES.

5 and 6 inch, per 100 lengths		7 00
7 inch..... " ...		7 50

TACKS, BRADS, ETC.

Carpet tacks, blued	80 and 15
" " tinned.....	80 and 20
" " (in kegs).....	40
Cut tacks, blued, in dozens only	80
" ¼ weights	60
Swedes cut tacks, blued and tinned—	
In bulk.....	80 and 10
In dozens	75
Swedes, upholsterers', bulk...85,	12½ and 12½
" brush, blued and tinned bulk	70
Swedes, gimp, blued, tinned and japanned.....	75 and 12½
Zinc tacks	35
Leather carpet tacks.....	55
Copper tacks.....	50
Copper nails	52½
Trunk nails, black	65 and 5
Trunk nails, tinned.....	65 and 10
Clout nails, blued	65 and 5
Chair nails.....	35
Patent brads.....	40
Fine finishing.....	40
Lining tacks, in papers.....	10
" " in bulk.....	15
" " solid heads, in bulk	75
Saddle nails, in papers.....	10
" " in bulk.....	15
Tufting buttons, 22 line, in dozens only	60
Zinc glaziers' points	5
Double pointed tacks, papers..	90 and 10
" " bulk....	40
Clinch and duck rivets.....	45

TAPE LINES.

English, ass skin .....per doz.	2 75	5 00
English, Patent Leather	5 50	9 75
Chesterman's.....each	0 90	2 85
" steel.....each	0 80	8 00

TINNERS' SNIPS.

Per doz.....	3 00	15 00

Clauss, discount 35 per cent.

THERMOMETERS.

Tin case and dairy, 75 to 75 and 10 per cent.

TRAPS (steel.)

Game, Newhouse, discount 25 per cent.
Game, H. & N., P. S. & W., 45 and 5 per cent.
Game, steel, 60 and 5 per cent.

TROWELS.

Disston's, discount 10 per cent.

German.....per doz.	4 75	6 00

S. & D., discount 35 per cent.

TWINES.

Bag, Russian .....per lb.	....	0 27
Wrapping, cotton, 3-ply	....	0 24
" " 4-ply	....	0 27
Mattress .....per lb.	0 33	0 45
Staging..... "	0 27	0 35

VISES.

Wright's.....	....	0 13½
Brook's.....	....	0 12½
Pipe Vise, Hinge, No. 1.....	....	3 50
" " " No. 2.....	....	5 50
Saw Vise	4 50	9 00

Columbia Hardware Co.
Blacksmiths' (discount) 60 per cent.
" parallel (discount) 45 per cent

ENAMELLED WARE.

White, Princess, Turquoise, Blue and White discount 50 per cent.....
Diamond, Famous, Premier, discount 50 and 10 per cent.....
Granite or Pearl, Imperial, Crescent, discount 50, 10 and 10 per cent.
Premier steel ware, 40 per cent.
"Star" decorated steel and decorated whit 25 per cent.

WIRE.

Smooth Steel Wire.

No. 0-9 gauge.....	$2 25
10 "	6c. extra.
11 "	12c. "
12 "	20c. "
13 "	30c. "
14 "	40c. "
15 "	55c. "
16 "	70c. "

Add 60c. for coppering and $2 for tinning.
Extra net per 100 lb.—Oiled wire 10c., spring wire $1.25, special hay baling wire 30c., best steel wire 75c., bright soft drawn 15c., charcoal (extra quality) $1.25, packed in casks or cases 15c., bagging and papering 10c., 50 and 100-lb. bundles 10c., in 25-lb. bundles 15c., in 5 and 10-lb. bundles 25c., in 1-lb. hanks, 50c., in ½-lb. hanks 75c., in ¼-lb. hanks $1.
Fine Steel Wire, discount 27½ per cent. List of extras: In 100-lb. lots: No. 17, $5—No. 18, $5.50—No. 19, $6—No. 20, $6.65—No. 21, $7—No. 22, $7.30—No. 23, $7.65—No. 24, $8—No. 25, $9—No. 26, $9.50—No. 27, $10—No. 28, $11—No. 29, $12—No. 30, $13—No. 31, $14—No. 32, $15—No. 33, $16—No. 34, $17. Extras net—tinned wire, Nos. 17-25, $2—Nos. 26-31, $4—Nos. 32-34, $6. Coppered, 5c.—oiling, 10c.—in 25-lb. bundles, 15c.—in 5 and 10-lb. bundles, 25c.—in 1-lb. hanks, 25c.—in ½-lb. hanks, 38c.—in ¼-lb. hanks, 50c.—packed in casks or cases, 15c.—bagging or papering, 10c.
Brass wire, discount 60 per cent. off the list.
Copper wire, discount 60 per cent. net cash 30 days, f.o.b factory.
Galvanized wire, per 100 lb.—Nos. 4 and 5, $3.70 to $3.70—Nos. 6, 7, 8, $3.15 to $3.15—No. 9, $2.55 — No. 10, $3.20 to $3.20—No. 11, $3.25 to $3 25 — No. 12, $2.65—No. 13, $2.75—No. 14. $3.75 to $3.75—No 15, $4.30—No. 16. $4.30. Base sizes, Nos. 6 to 9, $2.37½ f.o.b. Cleveland. In carlots 12½c. less.
Clothes Line Wire, regular 7 strand, No. 17. $4.65; No. 18. $2.90; No. 19, $2.60. Hollow 6 strand, No. 17, $4.30; No. 18, $2.70; No. 19, $2.35; No. 20, $2.30, f.o.b. Hamilton, Toronto, Montreal.

WIRE FENCING.

Galvanized barb.....	2 50	2 75
Galvanized, plain twist	2 50	2 75

Galvanized barb, f.o.b. Cleveland, $2 30 fo small lots and $2 20 for carlots.

COILED SPRING WIRE.

HighCarbon, No. 9.....	$2 70
" No. 11	3 35
" No. 12	2 95

WIRE CLOTH.

Painted Screen, per 100 sq. ft., net..	1 50

Terms, 2 per cent. off 30 days.

WASHING MACHINES.

Round, re-acting per doz.	56 00
Square " "	59 00
Eclipse, per doz	48 00
Dowswell "	36 00
New Century, per doz	72 00
Connor Improved.....	33 00
Daisy.....	48 00

WRINGERS.

Leader .....per doz.	30 00	33 00
Royal Canadian..... "	....	24 00
Royal American..... "	....	24 00
Sampson..... "	....	24 00
Lightning .... "	....	27 00

Terms, 4 months, or 3 per cent. 30 days

WROUGHT IRON WASHERS.

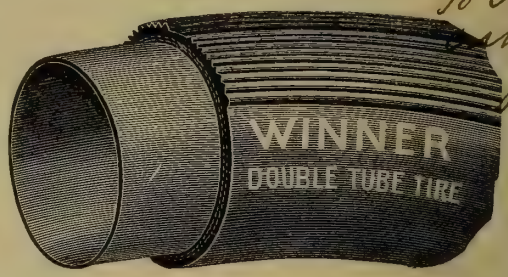
Canadian make, discount 40 per cent.

"Headquarters for Accessories"

For the Bicycle

The bicycle season opened with a rush this year, but we were prepared for it and can take care of your orders. We appreciate these orders.

There is only one **Winner Tire** and only one place to get them. Single or double Tube.



PRICE SHORT **WEAR LONG**

CANADA CYCLE & MOTOR CO., Limited

MAKERS OF THE WORLD'S BEST BICYCLES——————**TORONTO JUNCTION**

RETURNED JUN 15 1905

INDEX TO ADVERTISERS.

A

Accountants and Auditors 11
Acme Can Works 52
Acme Lathe & Products Co 53
Alabastine Co. 47
Alexandra Separator Co 52
American Shearer Mfg. Co. 58
American Steel and Wire Co 67
Anglo-Canadian Supply Co 54
Armstrong Bros 14
Atkins, E. C., & Co 61
Atlas Mfg. Co 63

B

Barnett, G. & H., Co ....outside back cover
Bartlett, Wm., & Son 63
Bayliss, Jones & Bayliss 1
Bell Telephone Co. 11
Bennett Mfg. Co 63
Birkett, Thos., & Son Co. 1
Boss Machine Co 8
Bosson Bros 63
Bradstreet's 12
British America Assurance Co 65
Bullard Automatic Wrench Co 27
Burman & Sons .....inside back cover
Butler, Geo., & Co 40

C

Canada Brass Rolling Mills 31
Canada Cycle and Motor Co 70
Canada Foundry Co. 53
Canada Iron Furnace Co. 39
Canada Paint Co. 50
Canada Paper Co 55
Canadian Bank of Commerce 65
Canadian Cordage and Mfg. Co. 9
Canadian Fairbanks Co 4
Canadian Heating & Ventilating Co 52
Canadian Rubber Co 32
Canadian Sewer Pipe Co. 20
Canadian Steel and Wire Co. 7
Cavers Bros. 6
Clauss Shear Co 53
Consumers' Cordage Co. 13
Concrete Block Machine Co 63
Confederation Life Association 65
Connor, J. H., & Sons 20
Cote, Bolvin & Cie 20
Covert Mfg. Co 6
Cutts, C. M. & Co 55

D

Davidson, Thos., Mfg. Co 2
Dennis Wire and Iron Co 47
Deseronto Iron Co 39
Dods, P. D., & Co 47
Dorken Bros. & Co ..outside front cover, 6
Dowswell Mfg. Co 14

E

Educational Dept 11
Enterprise Mfg. Co 40
Erie Specialty Co 12

F

Falkiner, H. F 54
Frothingham & Workman 9

G

Gibb, Alexander 51, 58
Gies, Philip 27
Gilbertson, W., & Co 51
Glauber Brass Co 27
Greening, B., Wire Co 7
Grose, Walter 43
Grove Chemical Co 51
Gurney Foundry Co 30, 55
Gurney, Tilden Co 57
Gutta Percha and Rubber Mfg. Co ....
outside back cover

H

Ham & Nott 54
Hamilton Cotton Co 44
Hamilton Rifle Co 20
Hanover Portland Cement Co 58
Harrington & Richardson Arms Co 53
Harris, W. G 53
Heinisch, R., Sons Co 10
Henderson, J. A 55
Henderson & Potts Co 48
Hobbs Mfg. Co 61
Hotel Directory 11
Howland, H. S., Sons & Co 19
Hyde, F. & Co 39

I

Imperial Varnish and Color Co 46
Ironside, Son & Co 51

J

Jackson, C. F., & Co 39
Jamieson, R. C., & Co 49
Jardine, A. B., & Co. 27
Jenking, A. C. 63
Johnson's, Iver, Arms and Cycle Works 18
Johnston, Rd., Clapham & Morris. 6

K

Kemp Mfg. Co 14
Kerr Engine Co 26

L

Legal Cards 11
Leslie, A. C., & Co 39
Lewis Bros. & Co. 3
Lewis Rice, & Son ..... inside front cover
Lockerby & McComb 57
London Rolling Mill Co. .inside back cover
Loughead, J. S., & Son 6
Lufkin Rule Co .....inside back cover
Luxfer Prism Co 61
Lysaght, John. .....outside front cover

M

Mackenzie Bros 43
Maple Leaf Harvest Tool Co 5
Mast, J. M., Mfg. Co 10
Maxwell, D., & Sons 6
Metal Shingle and Siding Co 58
Metallic Roofing Co 41
Metropolitan Bank 65
Metropolitan Business College 11
Millen, John & Son 23
Morton, B. K., & Co 39
Morrison, James, Brass Mfg. Co 24
Morrow, John. Machine Screw Co 43
Munderloh & Co 31

Mc

Mackay, J. M. 11
McArthur, Alex., & Co 66
McCaskill, Dougall & Co 51
McClary Mfg. Co 32
McDougall, R., Co 39
McGregor-Banwell Fence Co 14

N

Newman, W., & Sons 58
Nicklin, John, & Co 7
North Bros. Mfg. Co 1
Nova Scotia Steel and Coal Co 39

O

Oakey, John, & Sons 54
Office Specialty Mfg. Co 69
Oneida Community 9
Ontario Tack Co 16
Ontario Wind Engine and Pump Co .. 55
O-So-Ezy Mfg. Co 51
Owen Sound Wire Fence Co 7

P

Page-Hersey Iron and Tube Co 27
Page Wire Fence Co 31
Paterson Mfg. Co 68
Pedlar People 57, 63
Penberthy Injector Co 29
Phillips, Chas. D 58

R

Ramsay, A., & Son Co 10, 29

S

Sadler & Haworth .....outside back cover
Samuel, M. & L., Benjamin, & Co 2
Saunders, Franklin & Co 26
Sanderson-Harold Co 49
Scott, Greenwood & Co 47
Sell's Commercial 11
Seymour, Henry T., Shear Co 10
Sharratt & Newth 10
Shaw, A., & Son 10
Sherwin-Williams Co 17
Silica Barytic Stone Co 63
Skedden Brush Co 49
Smith & Hemenway Co 27
Solarine Metal Polish 54
Standard Ideal Sanitary Co 24
Standard Paint and Varnish Works ... 47
Staniforth & Co 8
Stanley Works 59
Starr Mfg. Co 36, 37
Stephens, G. F., & Co 42
St. George, H. E 47
St. Margaret's College 11
Summers, John, & Sons 6

T

Tarbox Bros 51
Taylor-Forbes Co. outside front cover, 52
Technical Books 10
Thompson, B. & S. H., Co .....
outside back cover
Thorne, R. E 27
Turnbull & Henderson 58

U

United States Register Co 29
Utica Drop Forge and Tool Co 27

W

Wallace Barnes Co 43
Walter, E. F., & Co 4
Warnock, James, & Co 59
Weese, G. A., & Son 11
Welsh Tinplate & Metal Stamping Co. . 4
Western Assurance Co 65
Western Wire Nail Co 10
White Mountain Freezer Co 12
Wilcox Mfg. Co 49
Wilkinson Sword Co 52
Winnipeg Paint and Glass Co 43
Wright, E. T., & Co 55

CLASSIFIED LIST OF ADVERTISEMENTS.

Aluminum Castings.
Canadian Aluminum Works Montreal.

Anvils
Taylor-Forbes Co., Guelph, Ont.

Art Glass
Hobbs Mfg. Co., London, Ont.
St. George, H. E., London, Ont.

Ash Sifter.
Cutts, C. M., & Co., Toronto Junction.

Automobiles.
Canada Cycle and Motor Co., Toronto.

Awnings, Tents, etc.
Bartlett, Wm., & Son, Toronto.

Babbitt Metal.
Canada Metal Co., Toronto.
Canadian Fairbanks Co., Montreal.

Belting, Hose, etc.
Birkett, Thos., & Co., Ottawa.
Canadian Rubber Co. of Montreal.
Gutta Percha and Rubber Mfg. Co., Toronto.
Sadler & Haworth Montreal & Toronto.

Bicycles and Accessories.
Canada Cycle and Motor Co., Toronto Junction.
Johnson's, Iver, Arms and Cycle Works, Fitchburg, Mass.
Millen, John, & Sons, Montreal.

Box Straps.
Warminton, J. N., Montreal.

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Canada Brass Rolling Mills, Toronto.
Glauber Brass Mfg. Co., Cleveland, Ohio.
Lewis, Rice, & Son., Toronto.
Morrison, Jas., Brass Mfg. Co., Toronto.
Nicklin, J., & Co., Birmingham, Eng.
Penberthy Injector Co., Windsor, Ont.
Taylor-Forbes Co., Guelph, Ont.

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Ramsay, A., & Son Co., Montreal.
Skedden Brush Co., Hamilton, Ont.
United Factories, Toronto.

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The Locators, Winnipeg.

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Acme Can Works. Montreal.

Carpenters' and Builders' Tools and Supplies.
Bosson Bros., Brussles, Belgium.
Covert Mfg. Co., West Troy, N.Y.
Frothingham & Workman Co., Montreal.
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Howland, H. S., Sons & Co., Toronto.
Hyde, F., & Co., Montreal.
Lewis Bros. & Co., Montreal.
Lewis, Rice, & Son, Toronto.
Lockerby & McComb, Montreal.
Lufkin Rule Co., Saginaw, Mich.
Metallic Roofing Co., Toronto.
Newman & Sons, Birmingham.
North Bros. Mfg. Co., Philadelphia, Pa.
Pedlar People, Oshawa, Ont.
Phillips, Chas. D., Newport, Eng.
Smith & Hemenway Co., New York.
Silica Barytic Stone Co., Ingersoll, Ont.
Stanley Rule & Level Co., New Britain.
Stephens, G. F., Winnipeg.
Taylor-Forbes Co., Guelph, Ont.
Waggoner Ladder Co., London, Ont.
Warnock, James, Galt, Ont.

Carriage and Waggon Accessories.
Covert Mfg. Co., West Troy, N.Y.
Lougheed, J. S., & Son, Sarnia, Ont.

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Greening, B., Wire Co., Hamilton.
Oneida Community Co., Niagara Falls.

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Frothingham & Workman, Montreal.

Churns.
Dowswell Mfg. Co., Hamilton.
Maxwell, David, & Sons, St. Marys.

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American Shearer Mfg. Co., Nashua, N.H.
Burman & Sons, Birmingham, Eng.
Dorken Bros. & Co., Montreal.

Clothes Reels.
Waggoner Ladder Co., London, Ont.

Concrete Block Machines.
Concrete Block Machine Co., Toronto.

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Canadian Cordage and Mfg. Co., Peterborough, Ont.
Consumers' Cordage Co., Montreal.
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Erie Specialty Co., Erie, Pa.

Cream Separator
Alexandra Separator Co., London, Eng.

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Clauss Shear Co., Toronto.
Dorken Bros. & Co., Montreal.
Heinisch's, R., Sons Co., Newark, N.J.
Howland H. S., & Sons, Toronto.
Lamplough, F. W., & Co., Montreal.
Silberstein, A. L., New York.
Smith & Hemenway Co., New York.
Walter, E. F., & Co., Montreal.
Wiebusch & Hilger. New York.
Wilkinson Sword Co., London, Eng.

Educational.
Metropolitan Business College, Ottawa.
St. Margaret's College, Toronto.

Electric Fixtures.
Canadian Aluminum Works, Montreal.
Mechanics' Supply Co., Quebec.
Morrison James, Mfg. Co., Toronto.
Munderloh & Co., Montreal.

Fence Machines.
London Fence Machine Co., London.

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Barnett Co., G. & H., Philadelphia, Pa.
Disston, Henry & Sons, Philadelphia, Pa.
Grose, Walter, Montreal.

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Sharratt & Newth, London, Eng.
Shaw, A., & Son, London, Eng.

Glue.
Grove Chemical Co., Lancashire, Eng.

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Erie Specialty Co., Erie, Pa.
Mast, J. M., Mfg. Co., Lititz, Pa.

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Waggoner Ladder Co., London, Ont.

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Ontario Lantern Co., Hamilton, Ont.
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Jenking, A. C., & Co., Montreal.

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Canada Metal Co., Toronto.
Deseronto Iron Co., Deseronto, Ont.
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Henderson, J. A., Montreal.
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Johnston, Rd., Clapham & Morris, Manchester, Eng.
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Solarine Company, Chicago.
Oakey, John, & Sons, London, Eng.

Metallic Window Screens.
Cutts, C. M., & Co., Toronto Junction.

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Davidson, Thos., Mfg. Co., Montreal.
Kemp Mfg. Co., Toronto.
McClary Mfg. Co., London, Ont.
Wright, E. T., & Co., Hamilton, Ont.

Mops.
Tarbox Bros., Toronto.

Nails and Spikes.
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Ontario Tack Co., Hamilton, Ont.
Peck Rolling Mills Co., Montreal.

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Office Specialty Mfg. Co., Toronto.

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Consolidated Plate Glass Co., Toronto.
Dods, P. D., & Co., Montreal.
Henderson & Potts Co., Montreal.
Hobbs Mfg. Co., London, Ont.
Imperial Varnish and Color Co., Toronto.
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Lewis, Rice & Son, Toronto.
Lucas, John, & Co., Philadelphia, Pa.
Luxfer Prism Co., Toronto.
McArthur, Corneille & Co., Montreal.
McCaskill, Dougall & Co., Montreal.
Montreal Rolling Mills Co., Montreal.
O-So-Ezy Mfg. Co., Montreal.
Queen City Oil Co., Toronto.
Ramsay & Son, Montreal.
Sherwin-Williams Co., Montreal.
Standard Paint and Varnish Works, Windsor, Ont.
St. George, H. E., London, Ont.
Thorne, R. E., Montreal.
White Lead Association of Canada, Montreal.
Winnipeg Paint and Glass Co., Winnipeg

Painters Tools and Supplies.
United Factories, Toronto.
Waggoner Ladder Co., London, Ont.

Perforated Sheet Metals.
Greening, B., Wire Co., Hamilton.

Plumbers' Tools and Supplies.
Bullard Automatic Wrench Co., Providence, R.I.
Canada Brass Rolling Mill, Toronto.
Canadian Fairbanks Co., Montreal.
Glauber Brass Co., Cleveland, Ohio.
Gies, Philip, Berlin, Ont.
Gurney Foundry Co., Toronto.
Jardine, A. B., & Co., Hespeler, Ont.
Jenkins Bros., Boston, Mass.
Mechanics' Supply Co., Quebec.
Morrison, Jas., Brass Mfg. Co., Toronto.
Page-Hersey Iron & Tube Co., Guelph.
Standard Ideal Sanitary Co., Port Hope,
Utica Drop Forge & Tool Co., New York.

Portland Cement.
Canadian Portland Cement Co., Toronto
Hanover Portland Cement Co., Hanover, Ont.
Hyde, F., & Co., Montreal.
Thompson, B. & S. H. & Co., Montreal.

Pottery.
Foster Pottery Co., Hamilton, Ont.

Poultry Netting.
Greening, B., wire Co., Hamilton, Ont.
Page Wire Fence Co., Walkerville, Ont.

Refrigerators.
Davidson, Thos., Mfg. Co., Montreal.
Ham & Nott Co., Brantford, Ont.
Sanderson-Harold Co., Paris, Ont.

Registers
United States Register Co., Battle Creek, Mich.

Roofing Supplies
Jenking, A. C., & Co., Montreal.
McArthur, Alex., & Co., Montreal.
Metal Shingle & Siding Co., Preston, Ont.
Metallic Roofing Co., Toronto.
Paterson Mfg. Co., Toronto & Montreal.
Pedlar People, Oshawa.
Taylor-Forbes Co., Guelph, Ont.

Saws.
Aikins, E. C., & Co., Indianapolis, Ind.
Disston, Henry, & Sons, Philadelphia, Pa.
Shurly & Dietrich, Galt, Ont.

Sap Buckets and Spouts.
Kemp Mfg. Co., Toronto.
McClary Mfg., Co., London, Ont.
Taylor-Forbes Co., Guelph, Ont.

Scales.
Canadian Fairbanks Co., Montreal.
New Warren Scale Co., Montreal.

Screen Doors and Windows.
Sanderson-Harold Co., Paris, Ont.

Screws, Nuts, Bolts.
Acme Lathe Products Co., Manchester
Bayliss, Jones & Bayliss, Wolverhampton, Eng.
Canada Foundry Co., Toronto.
Montreal Rolling Mills Co., Montreal.
Morrow, John, Machine Screw Co., Ingersoll, Ont.

Separators—Cream.
Alexandra Separator Co., London, Eng.

Sewer Pipes.
Canadian Sewer Pipe Co., Hamilton
Hyde, F., & Co., Montreal.

Shelf Boxes.
Bennett Mfg. Co., Pickering, Ont.

Shelf Brackets.
Atlas Mfg. Co., New Haven, Conn

Skates and Hockey Sticks.
Starr Mfg. Co., Dartmouth, N.S.

Stable Fixtures.
Greening, B., Wire Co., Hamilton, Ont.
Oneida Community Co., Niagara Falls, Ont.

Steel Rails.
Algoma Steel Co—Drummond, McCall & Co., Agents, Montreal.
Jackson, C. F., & Co., Vancouver, B.C.
Morton, B. K., & Co., Sheffield, Eng.
Nova Scotia Steel & Coal Co., New Glasgow, N.S.

Storage Warehouse.
Mackenzie Bros., Winnipeg.

Store Lighting.
Auer Light Co., Montreal.

Stoves and Tinware, Radiators, Furnaces, etc.
Canadian Heating & Ventilating Co. Owen Sound.
Davidson, Thos., Mfg. Co., Montreal.
Gies, P., Berlin, Ont.
Gurney Foundry Co., Toronto.
Kemp Mnfg. Co., Toronto.
McClary Mfg. Co., London.
Wright, E. T., & Co., Hamilton.

Tacks.
Ontario Tack Co., Hamilton.
Peck Rolling Mills Co., Montreal.

Traps.
Mast, J. M., Mfg. Co., Lititz, Pa.

Typewriters and Supplies.
United Typewriter Co., Montreal.

Wall Paper.
Stauntons Limited, Toronto.

Washing Machines, etc
Boss Washing Machine Co., Cincinnati, O.
Connor, J. H., & Son, Ottawa.
Dowswell Mfg. Co., Hamilton, Ont.
Taylor Forbes Co., Guelph, Ont.

Wholesale Hardware.
Birkett, Thos., & Sons Co., Ottawa.
Frothingham & Workman, Montreal.
Howland, H. S., Sons & Co., Toronto.
Kennedy Hardware Co., Toronto.
Lewis Bros. & Co., Montreal.
Lewis, Rice, & Son, Toronto.

Window and Sidewalk Prisms.
Hobbs Mfg. Co., London, Ont.
Luxfer Prism Co., Toronto.

Wire Springs.
Henderson, J. A., Montreal.
Wallace-Barnes Co., Bristol, Conn.

Wire, Wire Rope, Cow Ties, Fencing Tools, etc.
American Steel and Wire Co., New York, Montreal, Chicago.
Bayliss, Jones & Bayliss, Wolverhampton, Eng.
Canadian Steel & Wire Co., Hamilton.
Dennis Wire and Iron Co., London, Ont.
Dominion Wire Mnfg. Co., Montreal.
Greening, B., Wire Co., Hamilton.
Ironside, Son & Co., London, Eng.
McGregor-Banwell Fence Co., Walkerville, Ont.
Montreal Rolling Mills Co., Montreal.
Oneida Community, Niagara Falls.
Owen Sound Wire Fence Co., Owen Sound
Page Wire Fence Co., Walkerville, Ont.
Walter, E. F. & Co., Montreal.
Western Wire & Nail Co., London, Ont.
Wilcox Mfg. Co., London, Ont.

Woodenware.
Bennet Mfg. Co., Pickering, Ont.
Taylor-Forbes Co., Guelph, Ont.
United Factories, Toronto.
Waggoner Ladder Co., London, Ont.

Wrapping Papers.
Canada Paper Co., Toronto.
McArthur, Alex., & Co., Montreal.

NOT AN ADVERTISEMENT

RETURNED
APR 17 1905

This Awning is **50 ft.** long. Has been used four seasons, and has needed no repairs.

Our Awnings are the best made in Canada.



We make Roller Awnings for Store Fronts **12 feet to 100 feet,** operated from one end, requiring only a boy's strength.

THE AWNING ON THE STORE FRONT OF RYRIE BROS., THE LARGEST JEWELLERY HOUSE IN CANADA.

WE MAKE AWNINGS FOR STORE FRONTS, HOUSES AND OFFICES.

EXAMPLES OF WORK DONE IN TORONTO: AWNINGS USED BY GRAND & TOY, STATIONERS; WALKER & CO., DRY GOODS; THE WM. DAVIES CO., LIMITED, PROVISIONERS (WE DO ALL THE WORK OF THIS FIRM IN WINDOW SHADES AND AWNINGS—37 STORES); THE NASMITH CO., LIMITED, CATERERS—20 BRANCHES.

SEND FOR A QUOTATION. **WILLIAM BARTLETT & SON, 16 Adelaide St. W., Toronto**

FOR WM. BARTLETT & SON, BUT A TESTIMONIAL FOR HARDWARE AND METAL AS AN ADVERTISING MEDIUM

In May, 1904, the above advertisement was inserted in HARDWARE AND METAL. This advertisement at the time produced many inquiries from all parts of Canada. In March, 1905, nine months after the advertisement was inserted, Mr. Bartlett received an inquiry from a firm in St. John, N.B., enclosing the advertisement, which had been clipped from HARDWARE AND METAL when the advertisement appeared. Two holes in the paper showed clearly that it had been filed away for nine months. The firm in St. John evidently wanted an awning after this style, but did not want it until the spring of 1905.

An order has been placed with Wm. Bartlett & Son by the St. John firm for a $75 awning.

When the representative of HARDWARE AND METAL called on Mr. Bartlett this Spring for the renewal of his advertisement, he related this incident and said he intended placing a larger advertisement with us this year, and that if he received as many inquiries in proportion to the amount of space used last year he would have to increase his office staff.

April 8, 1905, Wm. Bartlett & Son write: "We have received two orders this week from New Brunswick through our ad. in HARDWARE AND METAL—one a small one and one a good large one."

FILL IN COUPON AND SEND TO US

Hardware and Metal, Toronto:

Please send me quotations on.....space
(Fill in size of space in which you are interested.)

for.....weekly insertions.

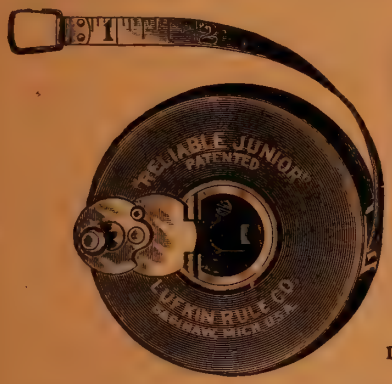
Name.....

Address.....

IRON STEEL

Bars in Flats, Rounds, Squares, Ovals, Half-Ovals, Half-Rounds and Bands. Also Wrought Washers.
GOOD QUALITY. PROMPT SHIPMENT.

London Rolling Mill Co.
Limited,
LONDON, CANADA.



LUFKIN MEASURING TAPES

Steel, Metallic, Linen, Pocket, Ass Skin, Pat. Leather, Bend Leather, Etc.

ARE THE BEST AND MOST POPULAR TAPES IN THE WORLD.
YOUR STOCK IS NOT COMPLETE WITHOUT THEM.

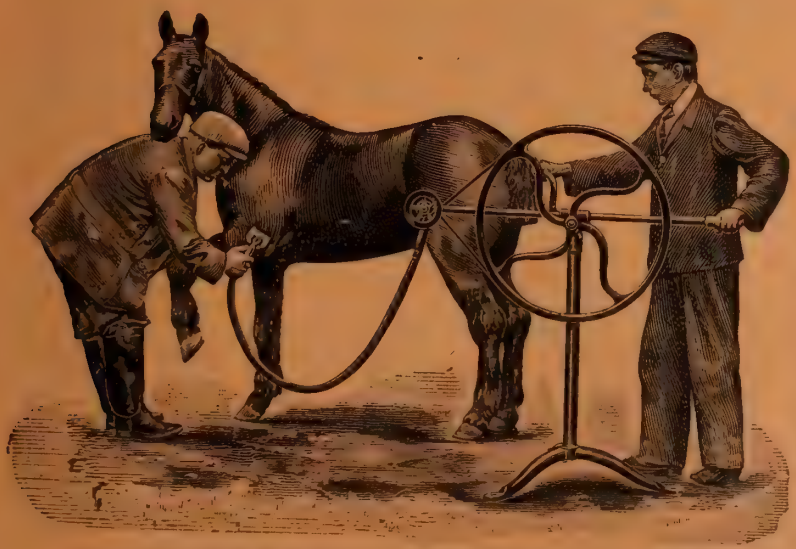
LUFKIN RULE CO., Saginaw, Mich, U.S.A.

London Office and Warehouse—48 Lime St. New York City Branch—239 Broadway.

For sale by ALL PROMINENT CANADIAN HARDWARE JOBBERS.

BURMAN'S CELEBRATED CLIPPERS

Bown's "Newmarket."



THE KING OF CENTRE-ADJUSTMENT CLIPPERS STILL REMAINS UNSURPASSED AFTER A RUN OF NEARLY

THIRTY YEARS

Patented 1874.



The Improved B PATTERN "NEWMARKET"

may now be obtained from all jobbers.

DETACHABLE PLATES

IMPROVED CAP WITH LONG BEARING

RIGIDITY AND EASY RUNNING

ACCURATELY MACHINED AND PERFECTLY FITTED

All parts interchangeable.

THE "NEWMARKET" POWER CLIPPER

For excellence of design and superiority of workmanship, the "Newmarket" Power Clipper stands supreme.

Manufactured solely by
BURMAN & SONS LIMITED

BURMAN & SONS LIMITED, - BIRMINGHAM, ENGLAND



Est. 1866. Inc. 1895.

Black Diamond File Works

G. & H. Barnett Company

PHILADELPHIA

Twelve  Medals

Awarded
By **JURORS** at
International Expositions
Special Prize
Gold Medal at Atlanta, 1895



WALTER GROSE, Montreal, SELLING AGENT FOR THE DOMINION.

The Fisk
Detachable Motor Tire



See how it curves around and forms a flat and solid base which is fastened to a flat and solid rim. This adds fifty per cent. to its safety. There's something to travel on, even when the tire is deflated. Also, notice the circular air chamber thus formed, which keeps the inner tube from chafing or pinching.

Manufactured in Canada solely by

THE GUTTA PERCHA & RUBBER MFG. CO.
OF TORONTO, LIMITED.

Head Offices:
47 Yonge Street, Toronto.
Branches—MONTREAL, WINNIPEG, VANCOUVER.

SHEET ZINC
INGOT COPPER
INGOT TIN

Prices from stock or to import on application to

B. & S. H. THOMPSON & Co.
LIMITED
53 St. Sulpice Street, MONTREAL

SADLER & HAWORTH

"Extra" *"Standard"*

HIGH - CLASS

IT PAYS US TO MAKE
Good Belting
IT WILL PAY YOU TO BUY IT.

LEATHER - BELTING

"Diamond" *"Agricultural"*

WAREHOUSES & FACTORIES AT
MONTREAL and TORONTO.

CIRCULATES EVERYWHERE IN CANADA
Also in Great Britain, United States, West Indies, South Africa and Australia.

HARDWARE AND METAL

A Weekly Newspaper devoted to the Hardware, Metal, Heating and Plumbing Trades in Canada.

VOL. XVII. MONTREAL AND TORONTO, APRIL 22, 1905 NO. 16

BUTCHERS' KNIVES
JOHN WILSONS
CELEBRATED
"PEPPERCORN AND DIAMOND"
BRAND CUTLERY.
TRADE MARK
BUTCHERS' STEELS
Canadian Agents: DORKEN BROS. & CO., Montreal

"FLEUR DE LIS"



Iron is "Queen's Head" quality, without the **extra heavy** galvanizing. Same guarantee.

JOHN LYSAGHT, Limited, Makers, BRISTOL, ENG.
A. C. LESLIE & CO., MONTREAL Managers Canadian Branch.

1 "Empress" Ball-bearing
2 The "Woodyatt"
3 The "Star"
4 The "Daisy"
5 The "Philadelphia"
6 The "Ontario"
7 The "King Edward"
8 and 9 2-Man or Pony Motor

Lawn Mowers

In the construction and design of our Lawn Mowers, the workmanship and quality of materials used are the very latest and best.

Every part interchangeable and easily duplicated from stock.

We guarantee every machine made by this Company. The most varied demands of the Trade can be supplied from the great assortment of styles here named.

Our name being on every machine is a guarantee of quality.

SEND FOR CATALOGUE "C"—OUR 1905 EDITION. ORDER THROUGH YOUR JOBBER.

Taylor-Forbes Company LIMITED.
The Largest Manufacturers of Hardware in Canada.
Montreal Branch: 9 De Bresoles St.
GUELPH, CANADA

Classified List of Advertisements on Page 63.

FISHING SUPPLIES

OF ALL KINDS

FISHING REELS HOOKS LINES FLOATS ETC.

FISHING BASKETS LANDING NETS FLIES SINKERS ETC.

It will soon be fishing time. Just a word about our line. We carry fishing supplies for every purpose and to meet every requirement personal taste or price may demand. If you have not carried a stock of these goods it will pay you to investigate our line.



CALEDONIAN MINNOW BAIT



MINNOW TRAPS



OTTER TROLLING BAIT

FISHING RODS



FISHING RODS

BAMBOO OR STEEL FISHING RODS

WRITE FOR CATALOGUE AND PRICES

RICE LEWIS & SON

LIMITED

TORONTO.

ALWAYS READY FOR USE



Full Hollow Ground $2.00 Each
Double Concave for extra hard beards, $2.50
Send for free book, "HINTS TO SHAVERS."

The CARBO MAGNETIC RAZOR

No Honing! No Grinding!

No Smarting after Shaving. With ordinary careful use will

KEEP AN EDGE FOR YEARS WITHOUT HONING.

Booklet coming—if you will ask for a copy, with trade discount.

FOR SALE BY LEADING JOBBERS.

FIRM OF
A. L. SILBERSTEIN, MAKERS OF "Griffon" Cutlery

459-461 BROADWAY, NEW YORK.

Don't forget to get our prices for

SPRING GOODS

BEFORE BUYING

Lawn Mowers, Lawn Rakes, Rubber Hose, Harvest Tools, Shovels and Spades, Paris Green, Green Wire Cloth, Churns, Wheelbarrows. . . .

Builders' and Lumbermen's Supplies Always on Hand

THOS. BIRKETT & SON CO., LIMITED

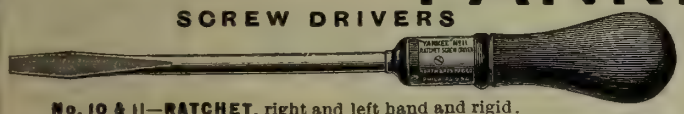
OTTAWA, ONT.

Other Tools are very Good Tools, but

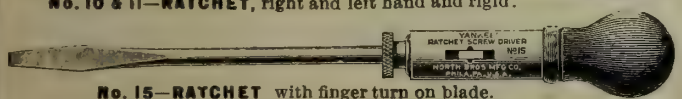
"YANKEE TOOLS" ARE BETTER

The NEWEST, CLEVEREST and QUICKEST SELLING TOOLS of the KIND.

SCREW DRIVERS



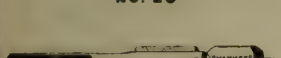
No. 10 & 11—RATCHET, right and left hand and rigid.



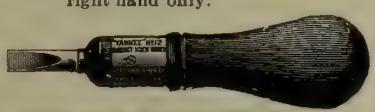
No. 15—RATCHET with finger turn on blade.



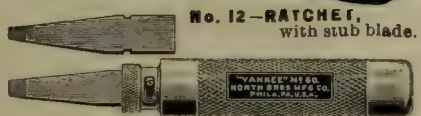
No. 30—SPIRAL RATCHET—right and left hand and rigid.
No. 31— " " (heavy pattern)
No. 20— " " right hand only.



Chuck and 8 Drill Points, for spiral ratchet screw driver.



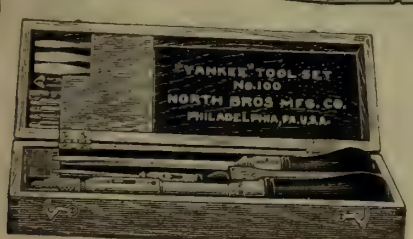
No. 12—RATCHET, with stub blade.



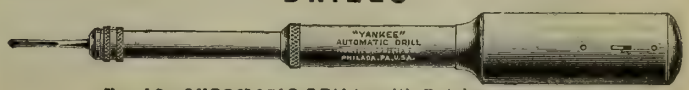
No. 60—POCKET SCREW DRIVER.



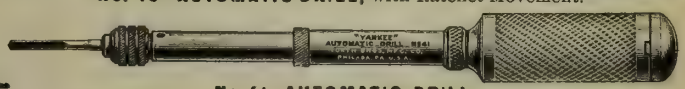
Countersink, for spiral ratchet screw driver.



DRILLS



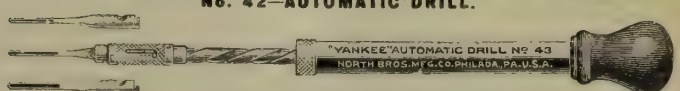
No. 40—AUTOMATIC DRILL, with Ratchet Movement.



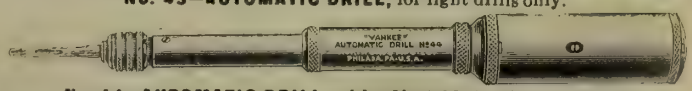
No. 41—AUTOMATIC DRILL.



No. 42—AUTOMATIC DRILL.



No. 43—AUTOMATIC DRILL, for light drills only.



No. 44—AUTOMATIC DRILL, with adjustable tension on spring.



No 50—RECIPROCATING DRILL, for wood or metals.

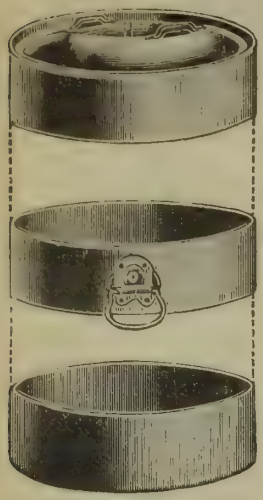
SOLD BY LEADING JOBBERS

SEND FOR OUR NEW "YANKEE" TOOL BOOK

NORTH BROS. MFG. CO.

PHILADELPHIA, Pa.

Davidson's Milk Can Trimmings



Sizes 10 to 40 gal.

IN COMPLETE SETS

"BROAD HOOP" Pattern—composed of the following: 1 Broad Hoop Bottom, 1 Cover, 1 Centre Hoop 6 in. wide, 20 gauge, 1 Broad Top Hoop, 1 pair Cover Handles, 1 pair Side Handles.

and Milk Cans with Broad Hoop.

PATENT ROLL-RIM BOTTOMS

Are handled by the most progressive dealers throughout Canada and have always given satisfaction both to the dealer and his customers.

Our Broad-Hoop Bottom has all the advantages of a seamless bottom without the weakness that the spinning entails.

BOTTOMS are very easily sweated on, using very little solder.

BOTTOMS are made concave and drain to the centre, and are therefore easy to wash out and keep clean. Will not corrode.

TOP BANDS are shouldered, and all BANDS have retinned edges.

We have in stock the best quality TINNED IRON, which we can supply at lowest market prices.



Heavy Rolled Edges make our PATENT BOTTOMS doubly durable and waggon and factory floor protectors.

The Thos. Davidson M'f'g Co., Limited
MONTREAL.

IRON AND STEEL SHEETS

COMMON DEAD FLAT

From Stock or Import

M. & L. Samuel, Benjamin & Co.

503 Temple Building - TORONTO.

English House—16 Philpot Lane, LONDON, ENGLAND

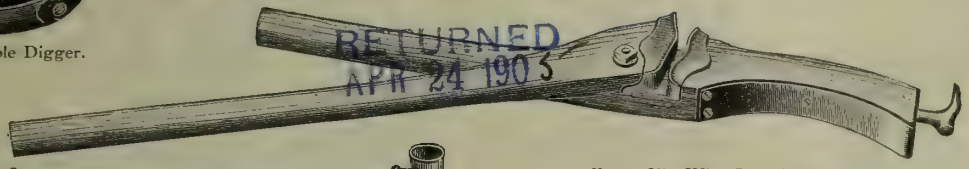
DO YOUR CUSTOMERS FENCE?

We don't mean fencing with foils and masks; but with post-hole diggers, wire-stretchers, and pliers—the kind of fencing that improves a man's property and makes it more valuable. He will appreciate it if you explain to him how his real estate will advance in price if neatly fenced, and, incidentally, you can show him your line of labor-saving tools to help him do it right. We are showing you a few of ours.

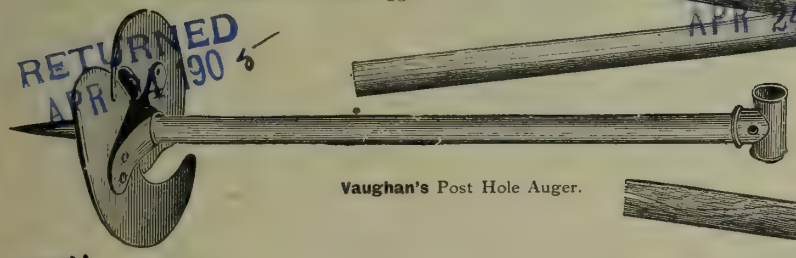


V & B Post Hole Digger.
Iwans Post Hole Auger.

Never Break Post Hole Digger.



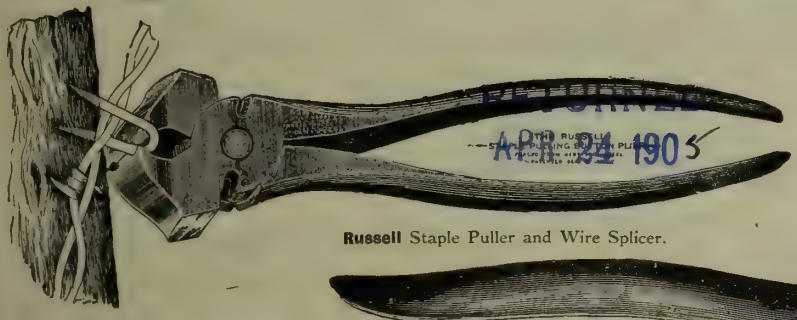
Never Slip Wire Stretcher.



Vaughan's Post Hole Auger.

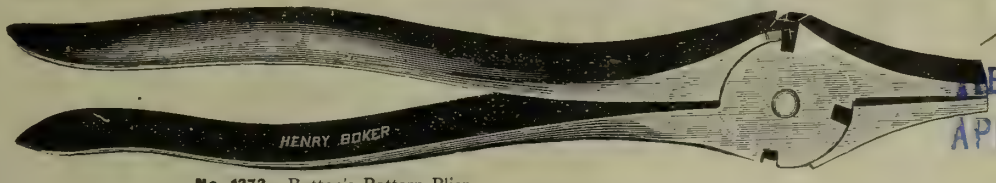


No. 172 Post Hole Spoon.



Russell Staple Puller and Wire Splicer.

Eureka and Elm City Combination Fence Pliers.



No. 1373. Button's Pattern Plier.



Dean, Star and Little Giant Wire Stretchers.

Canton Wire Stretcher.

CONSULT OUR THOUSAND-PAGE CATALOG THE MOST COMPLETE IN CANADA.

QUOTE LOW.

Lewis Bros. & Co.

SHIP QUICK.

Importers and Distributors

Address all correspondence to

MONTREAL

TORONTO, 87 York St. *OTTAWA, 54 Queen St.* *VANCOUVER, 141 Water St.*

"TRUE BRAND" CUTLERY

POCKET KNIVES
SCISSORS and
RAZORS

REGISTERED TRADE MARK TRUE

POCKET KNIVES
SCISSORS and
RAZORS

E. F. WALTER & CO., 166 and 168 McGILL STREET MONTREAL



HOLLOW-WARE

PRESSED, STAMPED, and MACHINE-MADE

ENAMELLED, TINNED, GALVANIZED and JAPANNED

We manufacture every description of Hollow-ware and we guarantee that every piece is made wholly on our own premises. Our average weekly capacity, is over 700,000 pieces, of Tinned, Galvanized and Enamelled ware. Our Enamelled ware is of superior durability and finish, and is guaranteed free from any poisonous substances.

Let us have your name for our illustrated lists

The Welsh Tinplate & Metal Stamping Co., Ltd.

LLANELLY, WALES

FAIRBANKS STANDARD SCALES

A FAIRBANKS SCALE
"Serves You Right."



RETURNED
MAY 10 19

To Montreal
Cut Book
Page 6

Their Reputation is World-Wide. Their Accuracy and Durability Unquestionable.

We manufacture every conceivable kind of Weighing Apparatus, and can furnish you with any kind of a scale, from the smallest postal scale to the largest railroad track scale.

Send for Catalogue.

THE CANADIAN FAIRBANKS CO. LIMITED

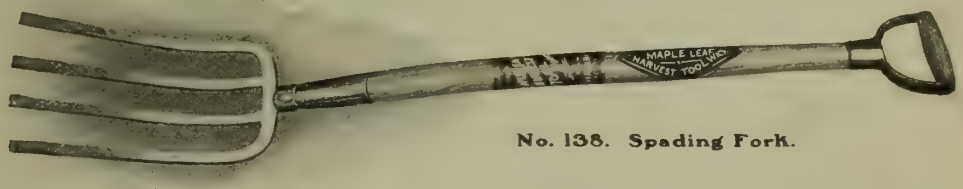
MONTREAL. TORONTO. WINNIPEG. VANCOUVER.

Have You Seen Them ?

For Beauty, Finish and Quality, the "Maple Leaf" Harvest Tools are unexcelled.



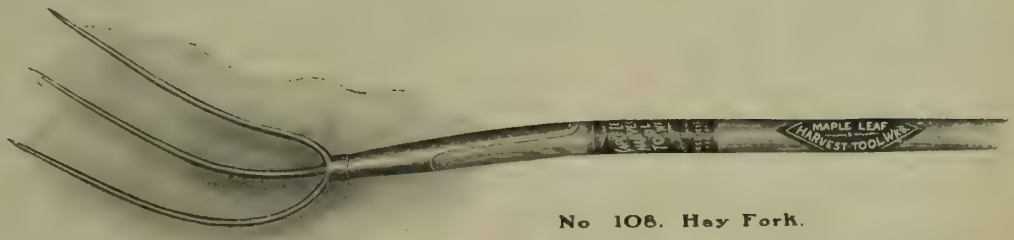
No. 122. Manure Fork.



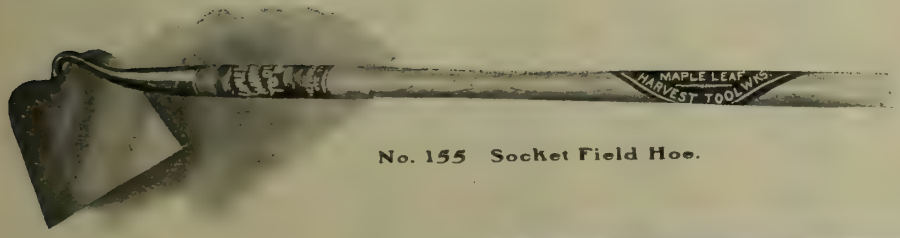
No. 138. Spading Fork.



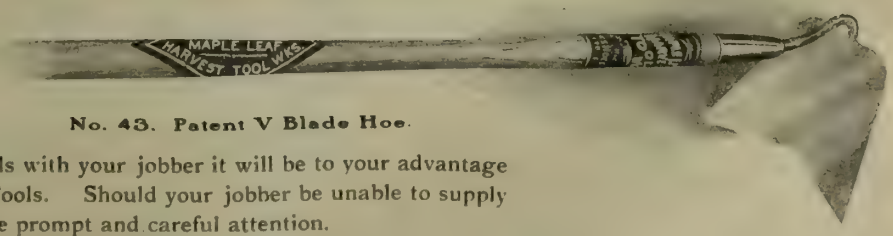
No. 243. Beet Fork.



No 108. Hay Fork.



No. 155 Socket Field Hoe.



No. 43. Patent V Blade Hoe.

TO THE HARDWARE TRADE—

When placing your order for harvest tools with your jobber it will be to your advantage to **specify** for the **"Maple Leaf"** Harvest Tools. Should your jobber be unable to supply them, send your order to us and it will receive prompt and careful attention.

The Maple Leaf Harvest Tool Co., Limited, Tillsonburg, Ont.



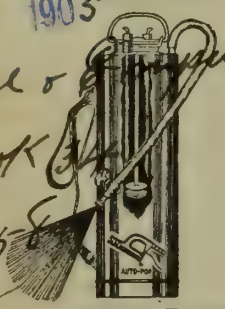
COVERT MFG. CO.
Troy, N.Y
Auto Screw Jack
Harness Snaps, Chain, Rope and Web Goods, etc.
FOR SALE BY JOBBERS AT MFRS. PRICE

QUALITY FOR MONEY
IN
"Windmill Best"
Galvanized Sheets
Made by
John Summers & Sons, Ltd.
STALYBRIDGE, ENG.
Agent
F. HANKIN, - Montreal

AUTO-SPRAY

ETURNED
AY 8 1905

Best Compressed-Air Hand Sprayer made



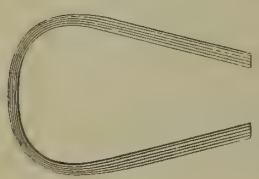
An absolute necessity for every Farm and Garden.

Will pay its cost in one season for Potatoes alone.

Saves time, labor and material. A boy can do the work. Will run continuously for 6 to 9 minutes.

Liberal Terms to the Trade

CAVERS BROS. - Galt, Ont.
Sole agents for the Dominion.



The Sarnia Hub, Spoke and Bent Goods Mfg. Co.
Sarnia, Ontario

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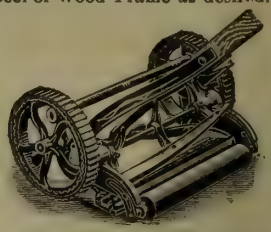
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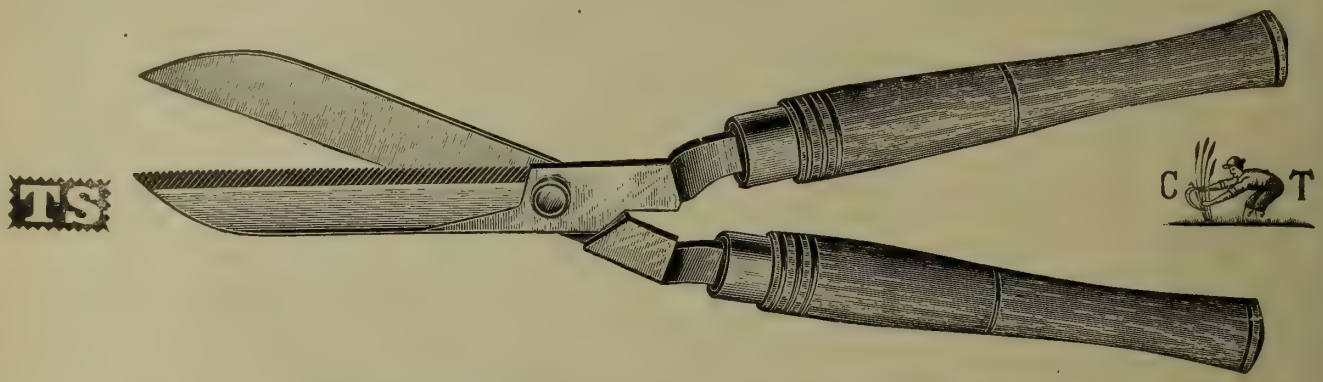
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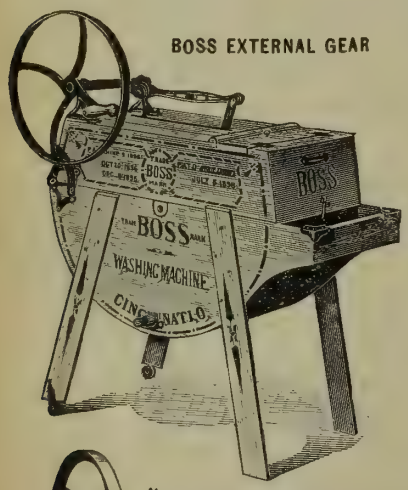


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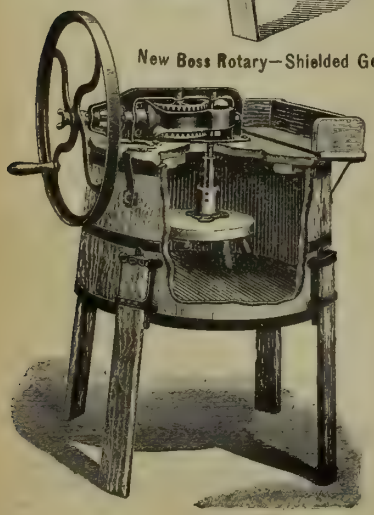


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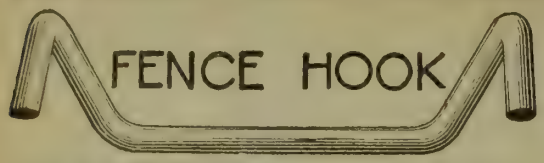
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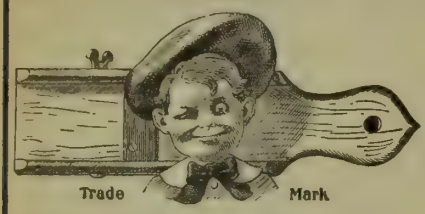
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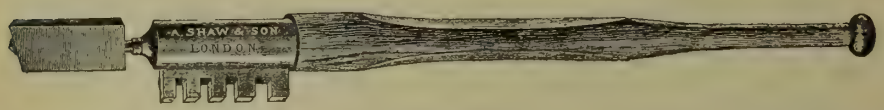
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THE CONCENTRATION OF ORES BY OIL

THE selective action of oil and grease on certain minerals, according to The Engineering and Mining Journal, has been made known by a number of independent investigators for some years, and several attempts have been made to utilize this knowledge for the purpose of a commercial separation of valuable products.

At the De Beers Diamond Mines such a process has been successfully developed and used for several years. The application is in the form of a shaking riffled table coated with thick grease, over which tailings from the washing pans are run, with the result that any diamonds present adhere to the grease, while the waste rock flows over freely. The attempt to use a thin oil for separating metallic sulphides from waste rock was made in England; and a certain measure of success was attained in small experiments by causing the oil to pass through a moistened mass of ore. It was found that the oil used had very little supporting power; that it attached itself to the gangue to such an extent as to cause excessive loss; and the details of an effective separation of the sulphides from the supporting oil were not worked out.

EXPERIMENTS TO REDUCE LOSS.

Mr. F. E. Elmore, in experimenting to reduce the excessive loss of copper and iron pyrites from a concentration mill in Wales, took up the investigation and was successful in developing a practical and economical method of utilizing the remarkable power of some oils to absorb certain minerals and metals. The description of the action of the oil as "absorption" will be allowed to pass by those who have seen the process in actual operation; it is entirely a surface action as between the oil and the wet particles of mineral, but in effect the result is that the particles enter into the body of the oil. The essential points of the process, on which its novelty and commercial success depend, are (1) the nature of the oil used; (2) the method of its application to the crushed ore; (3) the separation of the absorbed mineral from the oil.

Experiments made with many varieties of oil and fatty substances resulted in the discovery that an oil of the character of the thick residuum of petroleum distillation gave results far more effective than any other material, and in addition had advantages in its low first cost, its freedom from mechanical loss even when finely broken up, and in its power of supporting a relatively heavy charge of mineral without sinking in water, all of which gave its use the distinction of an absolute discovery as compared with the previously known characteristics of other oils. Besides the ordinary American residuum, having a specific gravity of about .88, similar products from other parts of the world have been found equally effective, particularly some natural thick oils from the East with specific gravity of .86. The factor of specific gravity is of importance, because the oil when charged with particles of heavy mineral has still to float freely in water. The capacity of the oil to thus support a charge is greater than would appear possible by calculation based solely on its normal specific gravity, because in practice the agitation with the pulp results in the oil taking up a very appreciable quantity of air, giving a certain sponginess, with natural increase in floating power. The properly charged oil when examined with a glass in a thin film is seen to be literally full of particles of mineral it has taken up, and its power of still floating appears remarkable. When overcharged with mineral, a portion of the latter settles out and sinks in water, dragging down entangled oil with it; some of this oil, shaking off the excess load, will again rise in globules to the surface. The degree of viscosity is ofiimportance as regulating the charge the oil will carry, and as affecting the mechanical loss from its influence on subdivision and re-agglomeration; but fortunately this degree of viscosity can be easily regulated by the addition of thinning or thickening oils or wax, and in part if necessary by the regulation of temperature in working. It has been discovered that the action of the oil on some ores can be stimulated by mixing certain acids with the oil itself at a very nominal cost, or by the addition of a very slight quantity of acid to the pulp before the contact with oil. This increase of efficiency is in some cases—such as in the treatment of Atacamite ores—sufficient to make the difference between success and failure; and is secured by the addition of quantities which are little more than traces of acid. Mine water of acid reaction is, therefore, well adapted to the process. When water is scarce it can be used over again after settling the tailings, as some extra muddiness is not injurious.

USE OF THICK OIL.

The use of the thick oil allowed of its application to a thin pulp, such as that produced in all wet crushing operations where an excess of water is always used; and previous efforts with other classes of oils had been unsuccessful with a thin pulp. Experiments were made with differing degrees of agitation of the oil with the flowing pulp varying all the way from a gentle rolling over of the oil and pulp in their travel down an inclined riffled launder, to a violent agitation, such as produced by passing through a centrifugal pump, or a cone mixer or an amalgamation pan. The attempt to pass the pump as a spray through a floating layer of oil was followed by the flowing of the pulp both over and under a fixed and a traveling surface coated with oil. In the end it was found that a slowly revolving cylinder with a helical launder within, fitted with low baffle plates at intervals, gave a sufficient agitation for most ores, and caused no unnecessary breaking up of the oil while insuring a clean concentrate, because there was no mechanical driving of particles of gangue in the oil. As a consequence of the experiments with many classes of ore under varying conditions, a standard type (or unit) of three mixing cylinders has been adopted, and will be more fully described later.

ROCK SEPARATED FROM MINERAL.

For some ores, requiring very close saving of a rich mineral finely divided in the gangue, extra agitation previous to treatment in the mixing cylinders has been found effective.

The application of the thick oil to a thin pulp allows of a simple, continuous and automatic treatment of the flowing produce from a stamp mill or other pulverizer. After the mixing of the oil with the pulp—which may be likened to the agitation of quicksilver with an ore in pan amalgamation—the oil with its charge of mineral is separated from the water and waste rock by running the whole into a large pointed box, from the

bottom of which the rock and water flow, while the oil and mineral float on the top and overflow for subsequent treatment. This separation is the equivalent of the separation of quicksilver and amalgam from the rock and water in a settler, although in the one case the heavy absorbed mineral is floated off by the oil, and in the other case the amalgamated metal sinks with the quicksilver.

USE OF QUICKSILVER EXCLUDED.

The similarity of the operations to those of amalgamation seems to have struck the Patent examiners in Washington; for in the broad claims granted for the process the use of quicksilver was specifically excluded.

Having secured the right kind of oil, the proper agitation with a thin pulp, and the separation of the oil and its absorbed mineral from the waste rock and water, the difficulty of a simple and effective extraction of the mineral from the oil was only overcome after a great deal of experimenting. Most of the particles of mineral produced in crushing an ore by stamps are very minute, so that the problem of their extraction from the body of a thick, sticky oil was not easy. To thin the oil sufficiently to allow the concentrates to sink was found commercially impracticable, either by addition to the oil of any thinning material, or by raising the temperature. Filter pressing (after heating) was found unsatisfactory for several reasons, and success was only obtained by the adoption of a system of centrifugal separation carried out under perfectly novel conditions of working. The oil is passed through a heater into a centrifugal machine, consisting of a vertical pan 48 inches in diameter, which has an inwardly projecting flange at the top, round and over which the discharge takes place. Water is run first into the centrifugal and forms a wall of the depth of the flange. The heated oil flows down a pipe into the bottom of the pan (which runs at 1,000 revolutions per minute) and passes up in a thin layer over the wall of water discharging over the flange at the top. During this passage of the oil over the water the solid particles of mineral are thrown out, through the supporting water, and pack against the side of the pan. When the pan is charged with mineral it is stopped for a few minutes, the collected wall of concentrates is broken down through an opening in the bottom of the pan (which opening in running is kept covered), and the machine is started again ready for a fresh charge. The cleaned oil flowing from the centrifugal is pumped back to the storage tanks above the mixers, for re-use after cooling. The separation of the mineral from the oil is very perfect. A sample of the oil now in circulation in the London Testing Works, and which has been used with a great variety of ores, contained on examination only 0.15 per cent. of solid matter. The discharged concentrates have still some oil and water mixed with them; and are dried by treatment in a second centrifugal fitted inside with a perforated pan, such as is used in drying sugar.

The mechanical details of the process have been thoroughly worked out; and the results referred to below will show that concentration by oil has passed the experimental stage.

WORKING PLANTS ESTABLISHED.

The first working plant erected was the gradual growth of experiments at the Glasdir Mine in North Wales, and had a final capacity of 50 tons per day. Several thousand tons of ore were treated; but the mine has been closed for some time for financial reasons not connected with the process itself. A complete testing works was next erected in London with a 5-ft. Huntington Mill for crushing, and an oil plant of a capacity of 25 tons per day. This plant has been run for nearly two years, making working tests on ores from various parts of the world; it is still in active operation. As a result of work done at this testing mill, in most cases under the superintendence of independent engineers, the following plants have been ordered:—75 tons for Norway; 50 tons for Lake View Mine, West Australia; 50 tons for Le Roi, No. 2, British Columbia; 50 tons Tywarnhaile Mine, Cornwall; 150 tons St. David's Mine, Wales; 100 tons Sygun Mine, Wales. Of these the last three are now in regular operation, and have been running from one to six months respectively.

OIL IN CONCENTRATES.

The mere presence of a small quantity of oil in the concentrates will not be considered a disadvantage; for, in nearly all cases, the subsequent treatment of this product will involve a roasting or smelting wherein the fuel value of the oil is worth considering; and mechanically the condition of the concentrates is advantageous for transportation as lessening loss by "dusting" and as for facilitating briquetting, if this be required.

One advantage of water concentration before the oil treatment in the case of ores on which this is possible is evident in the item of reduced oil loss from reduced weight of oil concentrates.

In the case of certain ores with a heavy gangue, such as magnetite baryta, garnets, etc., water concentration may be so imperfect as to leave of necessity the whole field to the oil process; and with ores containing only a small percentage of mineral suitable to oil treatment there is no need for water concentration to precede this.

SUGGESTIONS BASED ON TESTS.

In considering the possible application of the process, the following list of suggestions may be offered as based on tests already made with ores from many parts of the world:

(1) Treatment of float and slimes from existing concentration mills; that is, as an auxiliary to water concentration, when present losses would justify further treatment.

(2) As a substitute for water concentration in the case of certain minerals, such as molybdenite, cinnabar, some brittle silver minerals, and the tellurides.

(3) Concentration of minerals from a heavy gangue; for example, copper pyrite, grey copper, bornite, galena, iron pyrite and other sulphides, antimonides, arsenides or tellurides of the metals, from a gangue of magnetite heavy spar, garnet, etc.

(4) The separation of two valuable minerals in the same ore, as, for example, the extraction of argentiferous or auriferous sulphides and antimanides of the metals from a rock carrying tinstone, leaving the tin oxide to be washed out in a second operation. Such ores occur in South America. This process would be applicable also to the mixed copper and tin ores of Cornwall.

(5) By the increased extraction of slimes and float values, the use of the oil process would remove that fear of excessive slime production, which in some cases leads to the adoption of a complicated system of gradual reduction on an ore that must be eventually crushed fine to free all the mineral; and on which ore the simple reduction by stamps would offer decided advantages, both direct and indirect.

(6) The removal of the cyanide consuming minerals of gold and silver ores before cyanide treatment. In many ores the finely divided copper bearing minerals, most difficult to remove by any system of water concentration, cause a great consumption of cyanide; and the

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oil treatment does not interfere with the subsequent cyanidation.

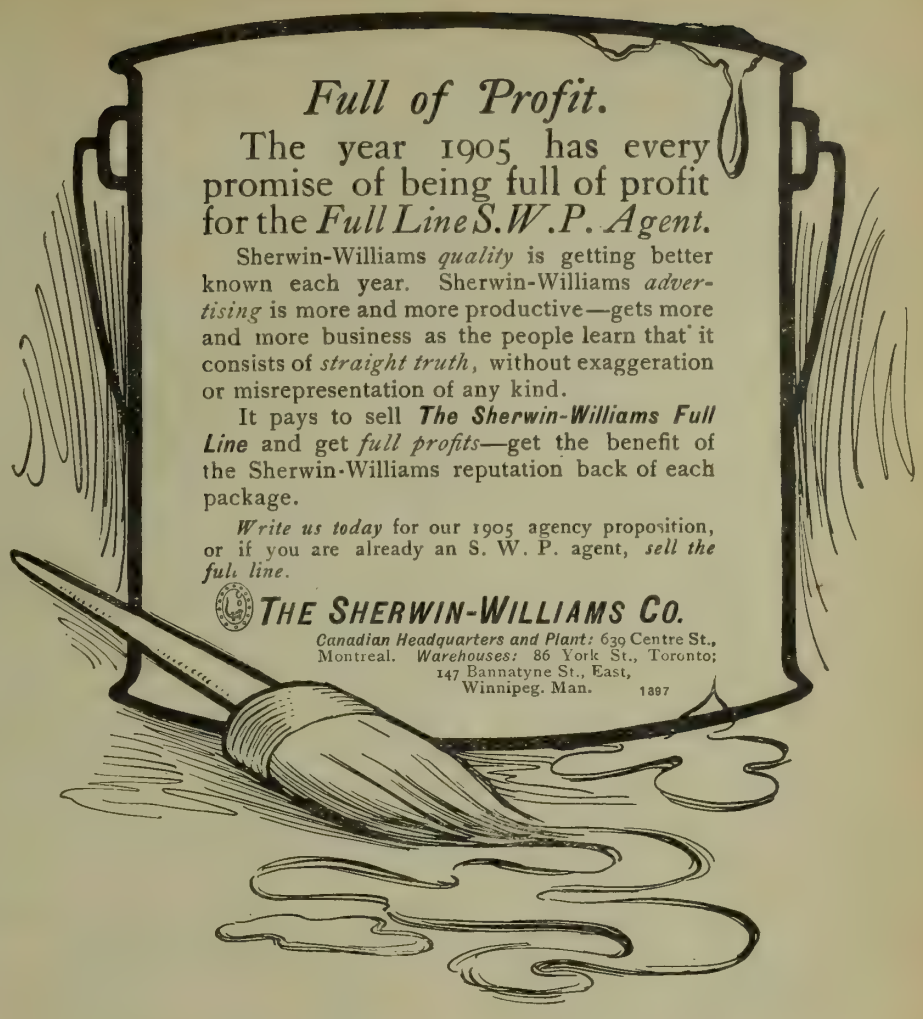
GREAT DIFFERENCE IN ACTION OF OIL.

The more general of the suggestions in the above list must of course be taken with the necessary limitation that the mineral to be saved is of a character susceptible to oil treatment. Broadly, it may be said that the oil acts only on native metals, sulphides, antimonides, arsenides and tellurides, and not on oxides, carbonates, silicates, or sulphates. There is a great difference in the activity of the oil on different sulphides. A bright metallic surface seems favorable to the most energetic action; so that while the oil will freely and instantaneously act on copper pyrites, bornite and grey copper if in an untarnished condition, there are some occurrences of copper sulphide having a more or less earthy texture, which are very little susceptible to oil treatment. Zinc blende is in most cases not well adapted to treatment; but some experiments seem to show that the activity of the extraction varies with the different lustres of blendes, between the extremes of light resinous and metallic. Cinnabar, even when in a finely divided state and of somewhat dull surface, seemed to be saved with facility. Galena and various compounds of antimony or arsenic and sulphur, with copper, silver and other metals, and the tellurides, generally seem good subjects for the oil treatment; and these minerals are usually subject to heavy losses in water concentration. Molybdenite is picked up with great facility; and, as this mineral often occurs scattered in quartz, and is not at all easy to concentrate economically, the use of oil offers in its case obvious advantages. Mention has been made of atacanite (the oxychloride of copper) as amenable to treatment under certain conditions, and it is possible that there are other minerals of the oxides of the metals which may be found later to be exceptions to the general rule above mentioned. Native gold, silver and copper are taken up freely. Two experiments with Lake Superior slimes have been unsatisfactory, and an explanation is to be found in the fact that some oxidation had occurred, shown by some of the copper being soluble in weak sulphuric acid. A merely superficial oxidation of a particle of metal or mineral will interfere with the action of the oil; so that old tailings of a mill may be untreatable, while the freshly crushed waste from the same mill will give good results.

PRODUCTION OF CLEAN CONCENTRATES.

As regards the production of clean concentrates, the results obtained with oil depend on several conditions. Taking, for example, a small quantity of copper pyrites and a particle of quartz together in water and both brought in contact with a body of the proper oil, the metallic mineral at once becomes coated by the oil, the quartz particle is quite unaffected; it remains wet and protected from surface contact with the oil by the water. A particle consisting of part quartz, part copper pyrites, is likely to be taken up by the oil from the contact effected through its metallic portion. From this it follows that a degree of crushing which does not effectively free the mineral from the gangue, will lead to a lower grade of concentrate, owing to the inclusion of a middle product. Excessive agitation leads to the introduction of waste rock into the thick oil by mechanical force. In most cases it is possible to make a sufficiently clean mineral concentrate from the commercial point of view. An examination under the microscope of the largest particles will show these to be mostly a middle product; part mineral, part gangue. Certain gangues are more apt to enter the oil than others, but they are not those usually found in payable mineral occurrences.

The process is not at present in use in the United States, although ores from a number of American mines have been tested successfully in London, and Prof. Christy of the University of California has established a small hand-testing plant. Steps will shortly be taken towards an introduction by the erection of a working plant at some favorable point.



BUSINESS INQUIRIES.

559. An English firm of wholesale hardware merchants have asked to be placed in touch with Canadian furniture, brush and woodware manufacturers who may require agents in Great Britain.

560. A firm of iron merchants in the north of England are desirous of purchasing disused railway material and old metal generally from Canadian sources.

CATALOGUES AND BOOKLETS.

For the convenience of its readers HARDWARE AND METAL has opened its columns for the review of catalogues booklets or other such publications issued by manufacturers or wholesale dealers selling to the hardware, plumbing, machinery or metal trades. Retailers desiring such publications may also have inserted a note to that effect. It is requested that when any of the trade write for any booklet mentioned in these columns that they credit HARDWARE AND METAL as the source of their information.

The Paint Man.

THE S.W.P. for April contains a series of four paint windows, together with a number of other interesting illustrations and articles. In an article on "Organization," an outline of the splendid system of organization of the Sherwin-Williams Co., who already manufacture their own linseed oil, dry colors, varnishes, and many liquids of all kinds, is given. They operate a tin-can factory, box factory, and a printing and binding establishment, make their own paint-mixing and tin-can machinery, and erect very largely their own buildings. Within the past year they have become owners of one of the largest lead and zinc mines in the country.

Metal Trades Handbook.

A convenient handbook bound in soft leather has been issued by Messrs. A. C. Leslie & Co., 560 St. Paul street, Montreal. The book embodies many metal trades tables and other valuable information, as well as a fair number of blank pages for notes regarding prices, etc. The tables of weights, etc., are exceedingly valuable to all engaged in handling metals, especially so on account of the convenient form of the book. If Hardware and Metal is mentioned a copy of the book will be sent to inquirers.

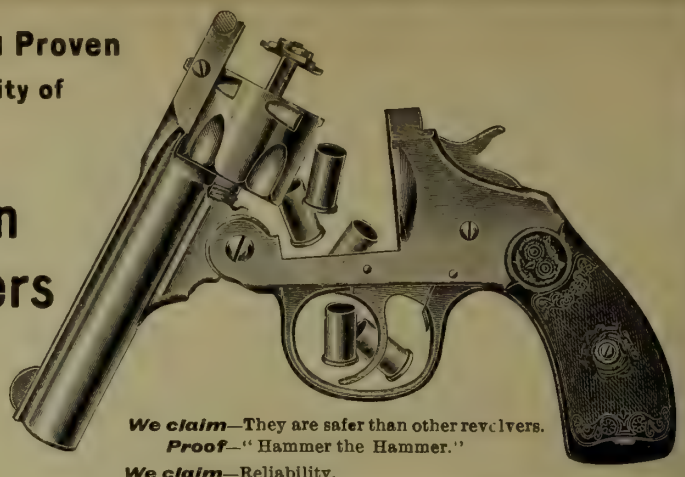
Metallic Roofing Catalogue.

A line that many hardware dealers have found to be a splendid paying sideline is that of metallic ceilings and walls. Every dealer should have a good catalogue illustrating this class of goods, so that intending purchasers can see before they buy. A very serviceable book is the one recently issued by the Metallic Roofing Co., of Toronto, a copy of which will be sent to any merchant who writes for it and mentions Hardware and Metal.

O-So-Ezy Circular.

A circular consisting of eight pages of reading matter, printed on heavily-coated paper of rich design and color, has been issued by the O-So-Ezy M'f'g Co. of Canada, Limited, Montreal. A large portion of this circular has been set aside to demonstrate the value of this composition as a floor preserver. The remaining columns of the circular are used in displaying letters which have been received from people who have used it. Any inquiry received from the retail trade regarding their circular shall receive prompt attention on the part of the O-So-Ezy M'f'g Co. Mention Hardware and Metal when writing.

Claimed and Proven
Superiority of
Iver Johnson Revolvers



We claim—They are safer than other revolvers.
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We claim—Reliability.
Proof—The satisfaction given to more than a million users.

We claim—They are the best advertised.
Proof—Watch the magazines.

We claim—They are the best revolvers made
Proof—They have the largest sale of any revolver in the world.

And thus we might go on and substantiate every claim ever made for **IVER JOHNSON** Revolvers; but suffice it to say—

The trade Prefer them
and
The public Demand them.

Send for finest fire arms catalogue ever published.



New York Office:
No. 99 Chambers St.

IVER JOHNSON'S ARMS & CYCLE WORKS,
FITCHBURG, MASS.

A 1905 and 1906 Calendar.

A well-designed and prettily-illustrated calendar has been issued by Messrs. Emerson & Fisher, Limited, general hardware merchants, of Nos. 23-27 Germain street, St. John, N.B. The upper portion of the calendar illustrates their large six-storey stores and warehouses. This work is done in colors and gives the calendar a very pretty effect. The figures on the pad are large and quite legible at a distance. The calendar dates from April, 1905 to June, 1906, and will be a handsome addition to the office end of any hardware store. Readers sending for a copy should mention Hardware and Metal.

Griffon's Strop-Aide.

A little envelope-size booklet sent us by A. L. Silberstein, maker of "Griffon" cutlery, 459 and 461 Broadway, New York, gives some valuable information regarding the care of razor strops, and describes the manner of use of the "Strop-Aide." Mention Hardware and Metal when writing for a copy of the booklet.

CANADIAN REFRIGERATORS IN ENGLAND.

THE Canadian Commercial Agent at Manchester, Mr. P. B. McNamara, in a recent report comments as follows on the refrigerator trade in England:

"The use of the refrigerator is gradually extending throughout England, and it seems strange to a Canadian who deems it indispensable in his house to find its use so restricted here. It is true that ice per season may cost more than in Canada, as it has to be carried a considerable distance by rail and water to the large centres of distribution, and this may have a tendency to restrict its use, but only amongst the class that could not afford it under any conditions.

"The German and American refrigerators are the only kinds to be found in this city, and the reason alleged by the dealers is that the Germans construct theirs to suit the public idea of ice compartment, and that is the main reason. The American Alaska is exact to the lines of the Canadian in almost every particular, and why the latter is not to be found on sale is surely the fault of the Canadian manufacturer."

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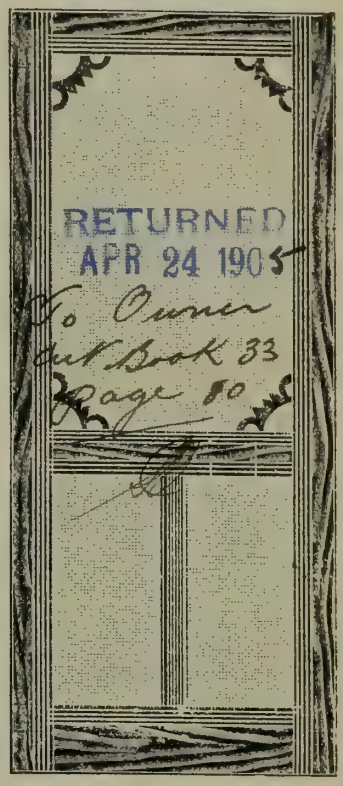
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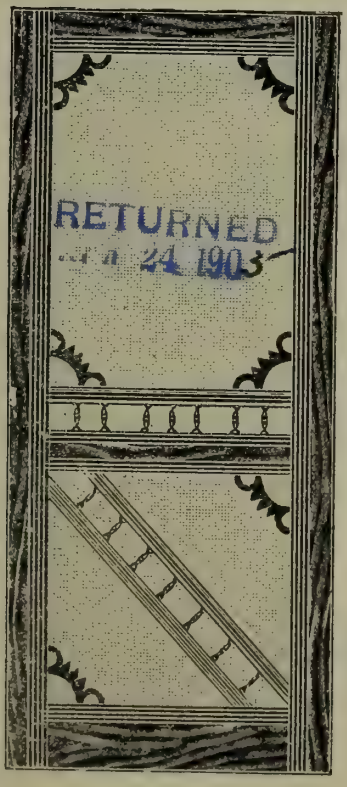
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3 ft. x 7 ft.



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Our goods are the standard for the best. They have the reputation and sell quickly at honest prices with a tidy margin of profit for the dealer.

Get acquainted with our Steam and Plumbing goods.

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TORONTO, ONT.

HEATING AND PLUMBING

Important Announcement.

THE publishers of Hardware and Metal are pleased to announce that arrangements have been completed for the publication of a series of important articles dealing with plumbing, heating, ventilation, and other subjects of special interest to the plumbing and steamfitting trades. The writer, Mr. M. J. Quinn, mechanical superintendent for the Ontario Government, has been in charge of the work on the public buildings of the province for a number of years and is both capable and well fitted to take up this work.

Realizing that the average publication on heating, plumbing, ventilation, etc., is of too technical a character to be



M. J. QUINN,
Mechanical Superintendent for the Ontario Government.

readily understood by many engaged in these trades and that correct information regarding even minor details often necessitates a considerable amount of study before the underlying principles involved are mastered and correctly applied, these articles have been written in language as far as possible devoid of technical phrases, algebraical signs, etc., and generally in such terms as will be easily understood by those whose practical experience is somewhat limited.

The articles will be illustrated by drawings, and the series will be so arranged as to permit of the appearance alternately of articles on hot-water heating, steam heating, plumbing, cold storage, etc., so that those interested in each branch will get an installment in turn; but when complete, each department will have been fully treated and the underlying principles explained, it is hoped, to the full satisfaction of our readers.

It is our aim to make Hardware and Metal of the greatest value to the trade in Canada, and no expense is being spared in the effort to improve this department of the paper. The first of the series of articles will appear next week, together with a report of the master plumbers' convention at Guelph.

Correspondence is solicited regarding any topic raised in the articles announced as well as upon any subject of interest to the trade.

The Provincial Collection of Sanitary Devices.

REFERENCE was made last week to a circular letter being sent out to many of the plumbers and supply houses of the province by Mr. M. J. Quinn, provincial mechanical superintendent, inviting them to interest themselves in what will undoubtedly prove to be a most important movement by the provincial health authorities, the object of which is to safeguard the health of the people of Ontario by bringing the standard of the plumbing in every part of the country up to the highest possible level.

The foundation of the movement will be a provincial collection of sanitary devices, ranging from the most obsolete and old-fashioned fixtures, piping, etc., down to the very best sanitary devices of the present day.

The primary object of this collection is to demonstrate to the great body of students, medical societies, architects' associations, municipal councils and officers, and the public, either individually or in numbers, the difference between defective and perfect plumbing, and by lectures and otherwise to impress upon those interested the necessity of installing nothing but the best.

A movement of this kind, unique as it is, should have the undivided support of every plumber in the country, because, apart from the purely selfish standpoint, viz., the direct financial gain due to a better class of work, it is in the interests of the whole people, and on the plumbers, who should and do understand the great dangers to health of defective plumbing, devolves the responsibility of doing all in their power to assist in crowning with success the work so enthusiastically undertaken by Dr. Hodgetts, the secretary of the Board of Health.

A considerable number of manufacturers, both Canadian and American, have already made handsome contributions to the collection, all of which, where it is at all possible, will be put in actual operation.

In addition to the plumbing collection it is also intended to have a heating section, a building construction sec-



DR. HODGETTS,
Secretary Provincial Board of Health.

tion, as well as departments for demonstrating ventilation, for exhibiting hospital supplies, etc., so that on the whole the undertaking has a large field for usefulness. The good results which will be directly traceable to its existence should encourage the Government to lend every assistance to the health department in this most important branch of its work.

Sell to Trade Only.

The test case brought by James Berridge, builder, of Toronto, against the James Robertson Co., the claim being made that an employe of the said company refused to sell plumbing supplies to the builder, has been adjourned for hear-

ing next Tuesday. Most wholesale houses display signs stating that goods are sold to the trade only and the action of the James Robertson Co. is in keeping with this rule.

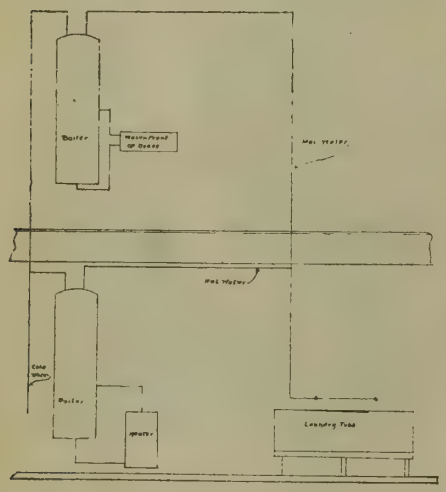
Defective Plumbing and Heating.

By W H.

ARTICLE VII.

THE accompanying cut shows a hot-water boiler in the kitchen heated from a range, and in the basement a second boiler heated from a jacket heater. The two hot-water pipes are connected at the ceiling of the basement and carried down to washtubs in basement. The reader might look at this for a long time before discovering the defects. There are so many jobs of a similar nature being done from time to time in different places that an explanation of this defective work may be of some interest to the reader.

When the kitchen fire and the jacket in basement are heating, a person would naturally think that hot water would be discharged into the washtubs, but such is not the case. The boiler in the basement being connected with the hot-water pipe at ceiling of basement makes a continuous circuit for the hot water to go



right up and into the kitchen boiler, the latter being at a higher point than is the basement boiler.

When the taps are opened at the washtubs, of course some warm water runs at first. Then the cold water is naturally discharged into the tubs, as the (warm) hot water being at the highest point and naturally lighter remains above, while the cold water presses through and out through fixtures below.

We trust that these pointers will be of interest to people installing similar work. If they should require a boiler in the basement and want to use the one main hot-water pipe they could carry the hot-water pipe from the basement boiler to the hot-water pipe at the boiler in the kitchen. This would obviate the trouble and would give a continuous hot water flow.

RETURNED
JUN 27 1905
To Issue
as Book 37
Page 8



"Quality is remembered long after price is forgotten."

THERE is more truth in the quotation than many appreciate.

Lots of people are "penny wise and pound foolish." Can't see any further than the price of an article—they buy just because "it's cheap."

It's a principle that it doesn't pay to follow. It won't give satisfaction and it won't build up business.

Buying **HORSE SHOES** you may save a few cents per keg and lose a customer; affects your reputation, too.

Quality counts first, last, and all the time. **HORSE SHOES** cost more but they're better value. Better material means longer wear—natural shape means less work for the farrier—crease designed to give perfect setting fornail—nail holes punched at proper angle.

That's briefly why there are more of our Shoes sold than all other brands. **Ask for them.**

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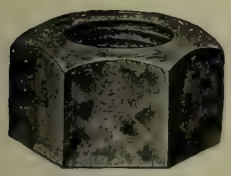
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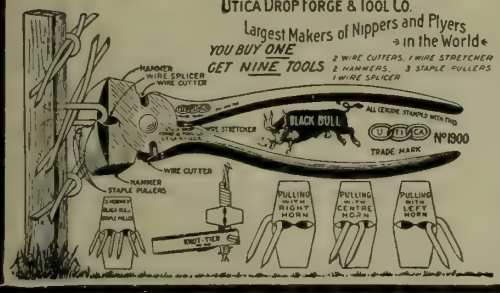
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Largest Variety, Toilet, Hand, Electric Power

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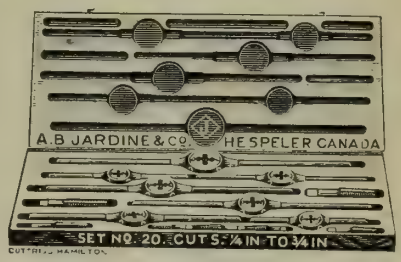
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Send Samples or Specifications for Prices.





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In Berlin

It is in the home field that one has trouble oftentimes in finding appreciation of his product. In Berlin

THE ECONOMICAL HOT WATER BOILER

has been enthusiastically received. Testimonials on request, in proof.

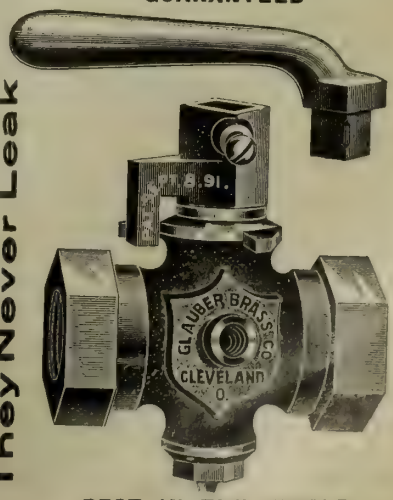
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GLAUBER

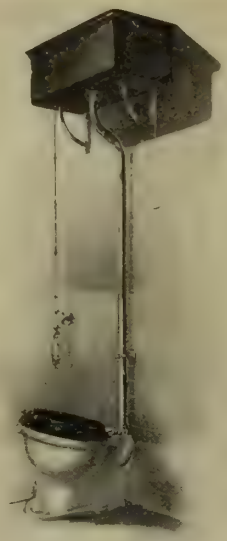
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They Never Leak



Always Work Easy

BEST IN THE WORLD



PERFECTION

is so rare a quality that when run across it is sure to command attention.

The most striking example of it in modern times is

The *Naturo* Closet and Seat

illustrated above.

This combination is so beneficial as to be rapidly becoming exceedingly popular.

The plumber who desires to get in "on the ground floor" for a successful and thriving business had better place a sample order with us. We know that more will follow. It is our pleasure as well as to our interest to advertise all our customers and thereby help increase their trade.

May we send you our Catalogue?

The *Naturo* Company

C. H. MUCKENHIRN, President.

SALEM, N.J.

Plumbing Markets

Quebec.

Office of HARDWARE AND METAL,
232 McGill street,
Montreal, April 21, 1905.

ORDERS which, when originally received, called for future shipment, are now being forwarded by the local supply houses, as the Summer rates came into effect on the 15th inst. The arrival of orders calling for a general line of goods tends to show that the open weather has permitted jobbers to commence outside contract work. As the jobbing plumber generally does not order until he requires the stock to complete a job, it is expected that trade from now on shall be good. Prices in general are firm. The market is steady and the outlook is for a banner year, if something unforseen does not happen.

Range Boilers—We quote as follows: Iron clad, 30 gallon, $6, and 40 gallon, $7.50 net; copper, 30 gallon, $22; 35 gallon, $24; 40 gallon, $28. The discount on copper boilers is 15 per cent.

Lead Pipe—The anticipation of a good building season has resulted in the jobbing plumber purchasing extensively in lead pipe. The good demand has caused the price to become firm. No advance, however, is expected. Our quotations are: Discount 30 and 5 per cent. f.o.b. Montreal, Toronto, St. John, N.B., and Halifax; f.o.b. London, 15c. per hundred lbs. extra.; f.o.b. Hamilton, 10c. per hundred lbs. extra.

Iron Pipe Fittings—The general conditions of this market have not changed during the past week. Discount on all sizes of nipples up to six inch, 67 1-2 to 70 per cent.

Iron Pipe—The demand for iron pipe still continues to be good. Large amounts of this pipe are being used in the cheaper class of dwellings. The expectations of numerous waterwork systems being installed during this coming Summer has led to the calculation of some large orders. Prices during the week have remained the same. Our quotations are: Standard pipe, in lots of 100 feet, regular lengths, 1-4 inch, $5.50; 3-8 inch, $5.50; 1-2 inch, $8.50; 3-4 inch, $11.50; 1 inch, $16.50; 1 1-4 inches, $22.50; 1 1-2 inches, $27.00; 2 inches, $36.00; discounts on black pipe, 1-4 inch, 62 1-2 per cent.; 3-8 inch, 62 1-2 per cent.; 1-2 inch, 72 1-2 per cent.; 3-4 inch, and upwards, 74 1-2 per cent. Discounts on galvanized pipe: 1-4 inch. 47 per cent.; 3-8 inch, 47 per cent.; 1-2 inch, 62 per cent.; 3-4 inch and upwards, 64 per cent. Extra heavy pipe of 100 feet lots are quoted as follows: 1-2 inch, $12.00; 3-4 inch, $15.00; 1 inch, $22.00; 1 1-4 inches, $30,00; 1 1-2 inches, $36.00; 2 inches, $50.00. The discount for black pipe is 72 1-2 per cent., and for galvanised, 61 per cent.

Soil Pipe and Fittings—A fair demand only exists for soil pipe and fittings. Prices are steady and continue unchanged. Our quotations are as follows: Soil pipe standard, 50 and 10 per cent. off list. Standard fittings, 50 and 10, and 10 per cent. off list. Medium and extra heavy soil pipe 60 per cent. off. Fittings 60 and 10 per cent. off.

Ontario.

Office of HARDWARE AND METAL,
10 Front street east.
Toronto, April 21, 1905.

JOBBERS are rushed with orders from all sections, all lines moving very well, with extra activity in roughing in materials such as lead and soil pipe. Orders for finishing work are being held in some quarters until after the first of May. The stocks carried by jobbers are larger than during any previous season, this indicating the faith the jobbers have in the volume of business to be done this year. The opening of navigation will allow some large orders placed some time ago to be shipped. There are no changes in price to report.

Lead Pipe—Prices are holding firm with great activity in the demand. We quote as follows: Lead, 7c.; lead waste pipe, 8c.; discount, 30 and 5 per cent.

Soil Pipe and Fittings — Demand continues active, with prices very firm. We quote as follows: Medium and extra heavy pipe and fittings, 60 per cent.; 7 and 8 inch pipe, 40 and 5 per cent.

Iron Pipe Fittings—A steady demand is reported, the same quotations ruling as before. We quote: Malleable fittings 20 to 25 per cent. for American and 35 per cent. for Canadian; cast iron (standard), bushings, 65 per cent.; headers, 60 per cent.; flanged, unions, 60 per cent.; lipped unions, 60 and 5 per cent.; malleable bushings, 60 per cent.; nipples up to 6 inch inclusive, 75 per cent.

Copper Range Boilers—Buying is very heavy at present. We still quote a discount of 15 per cent.

Galvanized Iron Range Boilers—Orders are being placed in fair quantity. Quotations are unchanged: 12 gallon capacity, standard, $4.50; extra heavy, $6.50; 18 gallon, standard, $4.75; extra htavy, $6.75; 24 gallons, standard, $4.75; extra heavy, $6.75; 30 gallon, standard, $5; extra heavy, $7.50; 35 gallons, standard, $6; extra heavy $8.50; 40 gallons, standard, $7; extra heavy, $9.50; 52 gallons, standard, $11; extra heavy, $14; 66 gallons, standard, $18; extra heavy, $20; 82 gallons, standard, $21; extra heavy, $24; 100 gallons, standard, $29; extra heavy, $34; 120 gallons, standard, $34; extra heavy, $40;

This Paint Sells



We are not giving you any worn-out phrases, such as "The best in the market" — "Always up-to-date"— "Made from the best," etc., etc.

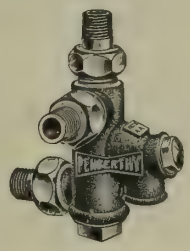
You know all that already. We tell you simply "This Paint Sells," and there is a profit in it for you— more profit than in House Paints— and the farmer wants it.

He will pay $1.00 a gallon easy, and you don't have to talk all day about it either. This is Ramsay's Outside Paints.

A. RAMSAY & SON COMPANY,

Est. 1842 MONTREAL The Paint Makers

GENUINE TRADE PENBERTHY MARK.

SAFE  SIMPLE

AUTOMATIC INJECTOR

Penberthy Oil Cups Lead



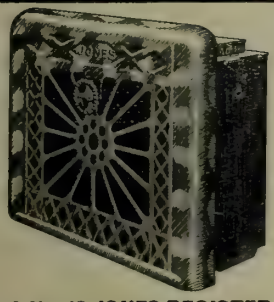
"SALUTE"
Snap Lever Oiler

MADE IN CANADA

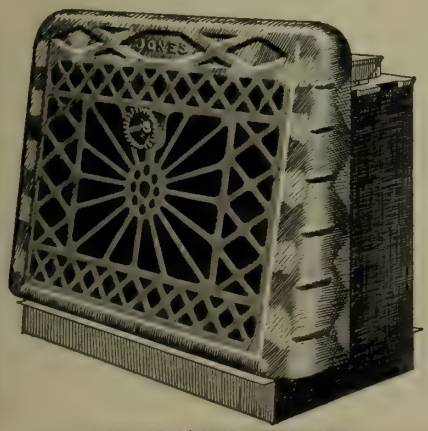


"SULTAN"
Gas Engine Oiler

ASK YOUR DEALER



A No. 12 JONES REGISTER
For second floor room. Bottom Collar fits 3¼x12 or No. 8 Wall Pipe.



A No. 15 JONES REGISTER
For first floor rooms. Bottom Collar, 7x14. These Registers are fitted with a Top Collar which fits 3¼x12 Wall Pipe or a plate when used for heating one room on the first floor.

ADVANCED METHODS OF WARM AIR HEATING

Is the title of our latest catalogue which illustrates and describes the

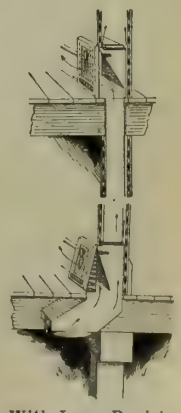
JONES SIDE-WALL REGISTERS, AND THE JONES SYSTEM OF WARM AIR HEATING

These Registers have been on the market since 1901 and are used by between five and six thousand of the best furnace dealers in Canada and the United States.

By the use of Jones Registers the efficiency of the furnace is **increased**; at the same time, the cost of installing furnace is **reduced**.

BE UP-TO-DATE AND USE THE BEST

There is included with each Jones Register, the register which is also a border, a double register box, a ventilator and a deflector. Wall pipes are two feet shorter and but one-half the number of basement pipes ordinarily used are necessary.



With Jones Registers but one-half the number basement pipes are necessary.

Manufactured by
THE JONES REGISTER CO.
295 College St., Toronto, Ont.

Manufactured for
MERRICK-ANDERSON CO.
Winnipeg, Man.

HOME OFFICE

THE UNITED STATES REGISTER CO.,

LIMITED

Burchard St. & D.T. & M.R.R., BATTLE CREEK, MICH.

OUR CATALOGUE FREE ON APPLICATION

SHEET BRASS AND COLD ROLLED COPPER

We are now fully equipped and can fill all orders for these metals.
Send us specifications of your requirements. Write for our Discount Sheet.

CANADA BRASS ROLLING MILLS, LIMITED

Mills: NEW TORONTO, CAN. Head Office: 98 King St. W., TORONTO

Why You Should Specify the Oxford Boiler

In the Oxford Boiler we have taken advantage of every point known to the science of hot water heating.

Without enlarging the boiler we have greatly increased the radiating surfaces, thus almost doubling its power. The fire-pot is of course jacketed with water, practically insulating the fire and keeping its heat within the boiler.

The sides of the fire-pot slant inwards over the fire giving a greater surface for its action. The first water section is double the depth of other sections and nearer the fire than in any other make, and the flue openings are bell shaped presenting an enlarged surface to the direct heat rays.

All joints are made with our push nipple, no rubber or fabric washers being used. To this is due the fact that they never leak.

You cannot afford to install any heating apparatus without first investigating the Oxford Systems. We would like to send you our new catalogue explaining and illustrating the Gurney Oxford Steam and Hot Water Apparatus. It tells the whole story and we send it free on request. Write for it.



The Gurney Foundry Co., Limited
TORONTO WINNIPEG VANCOUVER

The Gurney-Massey Co., Limited, Montreal.
The Curney Standard Metal Co., Limited, Calgary, Alta.

144 gallons, standard, $47; extra heavy, $55.

Iron Pipe — A strong demand exists. Quotations remain as follows: Black, 1-4 inch, $2.03; 3-8 inch, $2.06; 1-2 inch, $2.29; 3-4 inch, $2.87; 1 inch, $4.12; 1 1-4 inch, $5.62; 1 1-2 inch, $6.75; 2 inch, $9. Galvanized, 1-4 inch, $2.86; 3-8 inch, $2.89; 1-2 inch, $3.14; 3-4 inch, $4.02; 1 inch, $5.77; 1 1-4 inch, $7.87; 1 1-2 inch, $9.45; 2 inch, $12.60.

Solder—Prices continue firm with an active demand. Bar solder, half and half, guaranteed, is quoted at 19c.; wiping solder at 17 3-4c., and refined 18c.

Enameled Ware—Orders are being placed in large quantity for baths and other lines. The new discounts quoted on Canadian ware are not yet ready for publication.

Master Plumbers' Ball Club.

At the annual meeting of the Master Plumbers' and Steamfitters' Baseball Club the following officers were elected: Hon. president, Geo. Clapperton; president, K. J. Allison; vice-president, E. Larter; second vice.president, G. Cooper; manager, J. Wright; captain, A. F. McPherson; treasurer, D. Menzies; secretary, J. E. Fullerton, 564 Yonge street; managing committee, D. McMullen, R. Wright, R. Harrison, A. Richardson. They are open for challenges, plumbers and steamfitters' supply houses, Journeymen Plumbers' Association or Toronto Furnace Co. preferred.

A Simple Torch.

A short length of pipe makes a simple and inexpensive torch. Select 1 1-2 inch pipe for the purpose, and on the bottom screw a cast-iron cap, one which is heavy enough to form a base for the torch and hold it upright. Use a malleable iron cap for the top, and before screwing it on tap a hole for 1-2 inch pipe 3 or 4 inches shorter than the body, and the screw-thread should be about 3 inches long on one end. Screw it through the cap from the bottom until it projects about 2 1-2 inches, says the Engineer, and the torch will be complete.

ORDERS ARE COMING


Plate 4001

thick and fast for our **new ceiling goods**. Our new **"GOTHIC"** and **"LOUIS XIV"** classifications together with our low prices and liberal treatment enable the trade to

Get the Business.

Our new catalogue and price list is now ready for distribution and if you do not receive copy within a few days advise us.


Plate 4005

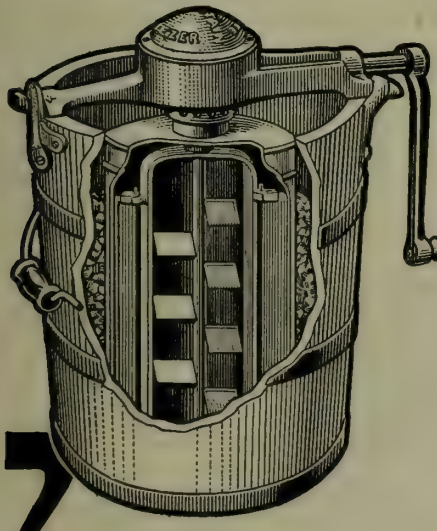
METAL SHINGLE AND SIDING CO., LIMITED - Preston, Ont.

ALBERTA AGENCY, Ellis & Grogan, Calgary. **NORTHWEST AGENCY,** Clare & Brockest, Winnipeg.
MONTREAL AGENCY, J. B. Dagenais, 953 St. James St.

PAGE LAWN FENCE

Indestructible, Handsome, Perfect. Only 20 cents per running foot.
Supplied by us or local dealer. 205

THE PAGE WIRE FENCE CO. LIMITED, Walkerville, Toronto, Montreal Winnipeg, St. John.



THE WHITE MOUNTAIN FREEZER

The

Ice Cream Maker

Par Excellence

Three Motions inside the Can. Two Separate Dashers - Produces the Greatest Quantity of Quality, Quickly. The Freezer that is Most Advertised, Best Known and Best Liked. Endorsed by and Sold by Leading Jobbers Everywhere. Catalogue for the Asking.

The McClary Manufacturing Co.,

LONDON, TORONTO, MONTREAL, WINNIPEG, VANCOUVER, and ST. JOHN, N.B.

— ALUMINUM —
THREE-GALLON TEA POT

YOU WANT THE BEST



ALSO MADE IN
6, 9 AND 12 CUP SIZES

WE MAKE THE BEST

Aluminum utensils take and retain the heat better than any other kind.

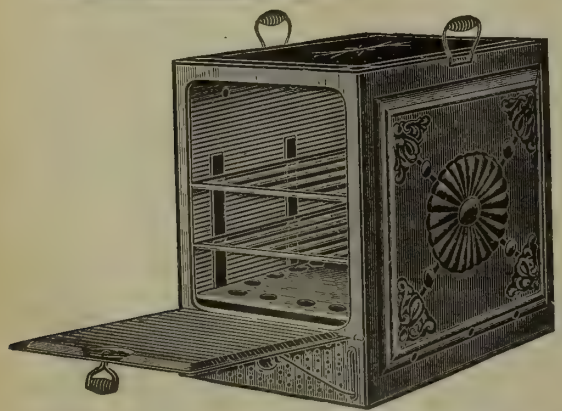
Aluminum does not rust, no danger of poison, does not taste the coffee, and can be set on the stove without any detrimental effects to either the coffee or the pot.

MADE BY

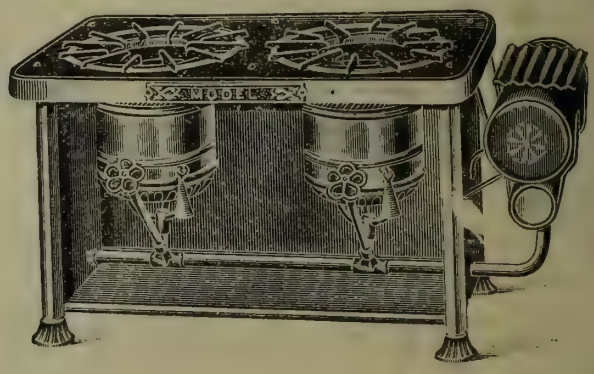
CANADIAN ALUMINUM WORKS, LIMITED

Catalogue on Application. CHAMBLY CANTON, QUE.





Warm Weather Goods



Our 1905 Catalogue of warm weather goods is now being sent out.

It contains 24 pages and shows all our lines of gas, gasoline and oil stoves, refrigerators, ice cream freezers and improved cooking utensils. If you have not received a copy drop us a card. We can make prompt shipment of these goods.

The McClary Manufacturing Co.

LONDON, TORONTO, MONTREAL, WINNIPEG, VANCOUVER, ST. JOHN, N.B. HAMILTON

"Everything for the Tinshop."

HARDWARE AND METAL

President:
JOHN BAYNE MACLEAN,
Montreal.

The MacLean Publishing Co.
Limited

Publishers of Trade Newspapers which circulate in the Provinces of British Columbia, North-West Territories, Manitoba, Ontario, Quebec, Nova Scotia, New Brunswick, P.E. Island and Newfoundland.

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ADELAIDE, AUSTRALIA, - Steamships Building. W. H. Sharland, Jr.

Subscription, Canada and United States, $2.00.
Great Britain and elsewhere - - 12s

Published every Saturday.

Cable Address { Adscript, London. Adscript, Canada.

NEW ADVERTISEMENTS:

Russell & Erwin Mfg. Co., New Britain, Conn,
Naturo Co., Salem, N.J.

ONTARIO ZINC ORES.

IN discussing the budget in the Ontario Legislature last week, Mr. R. R. Gamey made an exhaustive review of the mineral resources of the province. The speaker said that nature had done wonders for Ontario, providing it with 13,000,000 acres of copper-bearing land as well as large deposits of zinc and other minerals. Regarding the zinc deposits, it was contended that too little was known, although the value of the mineral was very great. Missouri was treating zinc ores of 15 per cent., while Ontario ores of 20 and 25 per cent. were neglected. Germany, Austria and the United States, which produced the zinc of the world, had not a deposit which began to compare with that of Ontario. There was no smelting plant in the province, and when an attempt was made to ship zinc ore to Belgium last year the Government export duty of $5 per ton prevented the development of the industry. Commenting on the United States contracts of the Soo company for 165,000 tons of iron ore, Mr. Gamey declared that a great part of this might have been obtained in the province. If Bessemer ore could be obtained in Ontario the Government should compel its use, and they would make a serious mistake if they allowed such large quantities of foreign ore to be contracted for, as was done last year. Information concerning the iron ores of Ontario should be furnished to speculative capitalists throughout the world. An assay office should be established at Sudbury and everything possible done to develop the wonderful resources of New

WESTERN ASSOCIATION PROGRESS.

THE new secretary of the Western Retail Hardware Association has entered upon his duties with energy and enthusiasm and substantial results should soon be apparent. He is undertaking a systematic visit of the retail hardware trade west of the lakes, and it can easily be understood that this work will require considerable time. Months must elapse before the entire trade can be visited, but in no other way can the organization work be so satisfactorily performed.

In the meantime there is no reason why the work of the Association should be allowed to wait in any town or district until the coming of the secretary-organizer. There is a disposition in most organizations to leave all the work to the officers, but the result is not always satisfactory. The Hardware Association has capable officers and a hard-working organizer, but its objects can be obtained more quickly if each member is prepared to do his part without waiting for directions from Association headquarters.

What can be done before Mr. McRobie arrives? The local dealers in any town or district can meet and arrange among themselves an equitable selling basis for staple lines, and they can report their progress by letter to Mr. McRobie's Winnipeg address at 231 Young street. In many parts of the country there have been such friendly agreements for years before the Western Association was thought of. It will be a great assistance if the organizer finds, upon his arrival in any town or district, that the dealers have come together in a friendly way and have arrived at tentative agreements.

Lastly, the Association requires funds in order that its work may be prosecuted vigorously. Mr. McRobie has not mentioned the matter to Hardware and Metal, but we have no doubt he will be pleased to receive membership fees of ten dollars at any time.

A WINDY CITY "BREEZE."

A RECENT issue of the American Artizan, of Chicago, passed Hardware and Metal the following compliment:

"We are in receipt of the Spring Trade Number of Hardware and Metal, published in Montreal, Canada, and take this occasion to congratulate our brethren of the ice and snow for the very attractive paper which they have gotten out."

The old chestnut about Canada being "Our Lady of the Snows" still seems to stick, even though hundreds of thousands of the inhabitants of the blizzard region, in which it is the misfortune of our able contemporary to be published, are disposing of their belongings and are heading for the land of promise to the north where No. 1 hard wheat has its home.

OUR MARKET REPORTS.

THE market reports given by the MacLean Trade Newspapers are as accurate as it is possible to make them and hardly a week passes without letters being received from local merchants stating that the reports are of great value to them in making purchases.

The merchant who consistently follows the reports is certain to save many dollars during a year's business—more than enough to pay his subscription several times over—and in addition he has the advantage of being kept up to date by reading the departments giving accounts of new goods and novelties, together with the gossip of each branch of trade.

Hardware and Metal has often been used as an authority in the courts of law, its market reports being recognized as being the best means of settling disputes regarding prices of goods. Another

case has just been reported to us of a prominent Ontario merchant who has a suit which will come up at the June Assizes and who relies on proving his case as to the quotations on goods sold in 1903 by the production of a number of copies of Hardware and Metal in court.

It is a source of satisfaction to know that the efforts made to keep the reports and prices current thoroughly accurate are appreciated and that they are of service to the merchants in whose interests the MacLean papers are published.

BINDER TWINE MARKET.

ONE of the leading papers of the Northwest in a recent issue openly charged that the International Harvester Co. are making a stupendous effort to capture the Canadian binder twine industry, says the Chicago Daily Review. The paper insists that the harvester trust has become convinced by the overwhelming majority by which the Laurier Government was sustained that there will be a continuation for fifteen years or more of the "open purse" free trade policy advocated by that administration and upon this basis are making preparations to do business. To do this, the paper says, it will be necessary to control the American market, and this is slowly but surely being done through the manufacture of binder twine at the cost of the raw material. By running at a gigantic loss and furnishing the commodity at a price which other concerns will, because of smaller financial backing, be unable to meet, the International Harvester Co. hope to control the entire trade of the North American continent. Once this is realized, it will be able to place the price of binder twine at any figure it chooses.

"The Canadian market," says this newspaper, "will be cornered through the fact that there is no duty on American twine sent across the line, while, on the other hand, Canadian manufacturers supplying this country with the commodity have to pay a duty of 45 per cent. Once in a position to supply the Dominion with all the twine it wants at a far lower figure than could be offered by the Canadian manufacturers themselves, the suspension of operation by these must be inevitable. So far the scheme has met nothing but success, and Canadian mills at Brandon, Walkerton, Ayton and Chatham have closed down, finding themselves totally unable to continue."

WEIGHTS AND MEASURES.

A QUESTION that has agitated Canadian merchants for some time is the proposed change from our present system of weights and measures to that of the French metric system. The change would cause endless trouble amongst retailers and, while it might mean new business for dealers in scales, the disadvantages greatly outweigh the advantages to be derived from the change.

It is interesting to note that the British Weights and Measures Association have issued a leaflet which shows graphically that taking the whole world and viewing the question from the point of view of population, area, or trade, the use of the metric system is still far in arrear of the measure employed in this country. If one looks at a map of the world, and puts to the credit of the inch the whole of the British Empire, the United States, Russia, and large tracts in Africa, as well as an equality with the metre in South America, light is thrown on the reasons for the existence of the association. They see no occasion for the greater part of the world bending the knee to the metre because a comparatively small part has done so; and they believe that the universal adoption of the metre would be more beneficial to the trade of existing metre-using countries than to that of the British Empire.

ETIQUETTE IN BUSINESS.

IN Canada, with everybody in more or less of a fever of anxiety to "get rich quick," there is a growing tendency to underestimate the importance of courtesy in business. As a community, we seem to have become oblivious to the fact that the pursuit of trade and commerce, if it is to continue a healthy avocation, requires a slight infusion of the same etiquette that is looked upon as highly important "after the shutters are up."

For instance, certain Canadian manufacturers are reported so careless in attending to business correspondence that a veritable stream of complaints has been pouring in to Ottawa during the past six months from merchants in foreign countries where an attempt is being made by officials of the Dominion Government to build up international trade. In a number of instances foreign firms claim to have inquired in vain for information in regard to Canada and Canadian manufacturers. Such a case was reported to this office only a week ago. A western commission man communicated with an Ontario firm asking to be appointed their western representative in case an appointment had not already been made. He also inquired for quotations on their goods. The firm in question took no notice whatever of the application or inquiry, with the natural result that they not only needlessly incurred the displeasure of the gentleman making the inquiry, but spoiled an excellent chance of establishing themselves in the Great West.

We are reminded of a recent remark made by Mr. Stewart, manager of the Sovereign Bank, on his return from a recent trip to Great Britain, that in the transaction of business Canadians had still much to learn from their kinsmen across the sea. In nothing is comparison more unfavorable to Canada than in the matter of correspondence. The Englishman would look upon it as suicidal to delay a reply to a business letter or telegram, recognizing it as one of the cardinal principles of business that courteous treatment should be extended to one and all alike with whom he is brought into contact. To gain or forfeit the goodwill of one person means much in business, and it is to be hoped that our manufacturers will have a care not to offend unduly in the little things remembering that it is these that go far to creating the atmosphere of success.

NEW WHOLESALE FOR TORONTO.

Hardware and Metal is informed that there is a possibility of another wholesale hardware house being established in Toronto as a branch of a large Montreal firm. The matter has proceeded so far that the senior member of the firm visited Toronto lately for the purpose of selecting a suitable site for a warehouse.

SHOULD COMMERCIAL TRAVELERS BE TAXED?

THE following letter from a prominent firm of importers and wholesale merchants in Victoria, B.C., is significant in view of the legislation against commercial travelers from Eastern Canada, which has just come into force in British Columbia:

MacLean Publishing Co.:—

> Under separate cover I am sending you a copy of the "Daily Colonist," in which you will see an editorial comment on "The Commercial Travelers' Tax," which is now in force in British Columbia. This was prompted by your editorial on the same subject in your issue of March 31, and I think, in justice to the merchants and manufacturers of this province, that you should give this editorial a like privilege in one of your future issues.
>
> H. G. WILSON.

Victoria, B.C. April 13, 1905.

The editorial referred to appeared in the Victoria Colonist of April 13, and is as follows:

The Canadian Grocer of recent date reflects in its editorial columns the hostility which has been aroused in Eastern Canada in wholesale centres against the action of the British Columbia Legislature in imposing a tax of $100 per annum on commercial travelers doing business in this province. The Grocer a few weeks ago condemned this action on the ground that British Columbia had no right to discriminate against Eastern Canadian houses, and that the national interests of Canada required a perfectly free intercourse of trade between the various provinces, and it reminds its readers again "that the successful working out of the scheme of Confederation postulates unrestricted and unhampered trade and intercourse between the people of the different provinces, and that anything that does not conserve this end cannot be viewed as other than a barrier in the way of our commercial development as a nation." It regards the tax as a short-sighted policy and contrary to the spirit of Confederation.

Manufacturers and wholesalers in the East whose interests are affected by this bill have sent deputations of commercial travelers, from various centres, to Ottawa to interview the Minister of Trade and Commerce.

They claim that the imposition of the $100 tax is a violation of the British North America Act and a restriction upon trade, and have asked the Dominion Government to veto a measure that cannot do other than injustice to the wholesale manufacturing and mercantile interests throughout the Dominion. It was pointed out by these gentlemen that, roughly estimated, the imposition of this tax will mean an annual outlay to the merchants of Toronto alone of over $14,000.

The question of the constitutionality of this tax is one which can easily be decided by reference to the courts, but we hardly think the Minister of Justice will take the responsibility of advising the disallowance of an Act which appeared, to the British Columbia Legislature at least, to be clearly within its rights. In fact, there is not much doubt about it.

Naturally, the eastern wholesaler and commercial man will oppose anything that increases the expense of doing business in this province or elsewhere, but there are other considerations involved. It is very well to talk of the free interchange of products throughout the Dominion and the undesirability of imposing restrictions upon trade. It is forgotten, however, that, by reason of the position that British Columbia occupies in Confederation, the benefits of interprovincial trade are wholly one-sided. While British Columbia pays 8 per cent. of the price of Confederation it gets in return 1 per cent. of its trade benefits.

Let us consider how the matter of the tax works out in connection with our own commercial interests. One of the serious complaints of the late Assessment Act by the commercial community was that while the local merchant and manufacturer were taxed upon their stocks as personal property by the Provincial Government and at the same time were made to pay heavily to the municipalities for their realty, the commercial traveler from the east could come in with his samples, sell in competition and enjoy all the benefits of the local market without contributing a cent to provincial or municipal treasuries. We need not go into an exhaustive comparison between the conditions here and in the east and consider the handicaps imposed upon our trade and industry of this province by these conditions, which include sparseness of population, isolation, high freights, dear labor, etc., etc. The eastern wholesaler and manufacturer have enjoyed the freedom of our market, which is one of the most profitable in the Dominion. The British Columbia manufacturer and wholesaler enjoy few, if any, of the advantages of reciprocity with the rest of Canada.

Can the eastern man, if in these circumstances, complain that, in doing business in British Columbia he is asked to share a small portion of the burden cast upon the local men with whom he comes in competition? If the commercial travelers should have to pay even $15,000 or $20,000 a year for a trade which is worth many millions of dollars, as a business transaction, we do not think they have any grievance. Would they not willingly pay a much larger sum to reach any other market which offered the same advantages that British Columbia does?

It is evident that the wholesale merchants and manufacturers of British Columbia will have a certain amount of protection under the new Act which they did not enjoy before. But as to the injustice of local firms being subject to a tax upon stocks carried by the Provincial Government and liable to a heavy realty tax from their municipality while the eastern traveler comes in as a free lance to compete with them on their own ground, there is room for argument. It must not be forgotten that the eastern wholesaler or manufacturer also pays heavy taxes at home, and that the visits of his traveling representatives to British Columbia are not entirely barren of beneficial results to the West.

As to the claim that British Columbia enjoys no benefit from unrestricted interprovincial trade it will scarcely be contended by British Columbia houses that they do not profit from the trade they have worked up in the Territories and Manitoba, to say nothing of the business connection they have established in the east. It looks threateningly like penny wisdom and pound foolishness on the part of western business men to have even attempted to exclude eastern Canadian merchants from British Columbia. Surely they have no desire to bring about an entire segregation of British Columbia from eastern Canada in matters of trade. There may, of course, be local circumstances to be taken into account of which we are not cognizant. Hardware and Metal, however still holds that the Government authorities and the business men of the Pacific province have consulted their immediate interests rather than their own best interests, and that of Canada as a nation in allowing the Commercial Travelers' Act to become law. The reading columns of Hardware and Metal are open for discussion on this vital subject.

KEEP PLYING THE OARS.

The most successful advertisers of this country are the steady advertisers; the men who plan campaigns in great detail; the men who have started advertising in a modest way and have increased their appropriations as the results became apparent. These men have never been foolhardy enough to believe that they could scale the heights of prosperity at a single bound, or could count on past advertising to carry them along on "downy beds of ease" through the present. Advertising gathers force as it goes—stop it for any length of time and you have to make up for the loss of momentum. The merchant or manufacturer who drops his advertising during dull seasons is dropping his oars in midstream and letting the current bear him backwards.—Printers' Ink.

MARKETS AND MARKET NOTES

(For detailed prices see Current Market Quotations, page 58.)

Quebec Hardware Markets.

Office of HARDWARE AND METAL,
232 McGill Street,
Montreal, April 21, 1905.

ASSORTING-UP orders of good size continue to arrive from all parts of the Dominion. Trade in the extreme parts of the Lower Provinces has assumed a much brighter aspect, and during the past week some large orders have been received by the local wholesale houses. One feature quite noticeable in connection with these orders is the heavy demand for harvest tools. The 15th of this month noted another heavy shipment of orders which were being held over for cheaper freight rates, and at present all orders which are supposed to travel by rail have gone forward. Local wholesale merchants are now preparing for the transportation of those orders which are supposed to go forward by steamer. Every indication points to the early opening of navigation, and it is expected on every side that the trade of next week shall be of an exceptional character. Spring goods have a good demand this Spring, which has reached beyond the expectations of the most sanguine. As a result of this improvement prices have become much firmer, and in some cases a slight advance is noted.

Axes—Very few axes are going forward, and trade is not expected to brighten up till next August or September. We quote as follows: Chopping axes, unhandled, $6 to $9.50 a dozen; double bitt axes, $9.50 to $12 a dozen; handled axes, $7.50 to $9.50; Canadian pattern axes, $7.50 a dozen.

Handles—The demand for handles, like that of axes, is becoming weaker. Prices are steady and continue unchanged. Our quotations are as follows: Axe handles, No. 3, $1.25; No. 2, $1.50; No. 1, $1.90 a dozen; adze handles, 34 inch, $2.20 a dozen; pick handles, No. 2, $1.70; No. 3, $1.50 a dozen.

Sewing Machines—There is a free movement in sewing machines. There has been a great demand on certain sizes this year, and trade in general has a much brighter aspect than it has had for some time past. We quote: Hand sewing machines, $11 each net; complete machines with stand, $18 and up, according to quality.

Lanterns—The demand has become very irregular, and as there is a strong tendency at present to an advance in the near future manufacturers are not cultivating the trade in the hope of booking orders. Prices continued unchanged. We quote the following: Cold Blast, $4.50; No. 0 Safety, $3.50.

Barb Wire—There is a free movement of orders and manufacturers are keeping up with the demand better than in former years. Prices are firm, but there is no indication of an advance. We quote as follows: $2.75 for 100 lbs. f.o.b. Montreal; $2.37 1-2 f.o.b. Cleveland. Carlots of 15 tons, $2.25 f.o.b. Cleveland.

Fence Staples—Large orders have been received from New Ontario and the Northwest. This indicates that considerable fencing shall be accomplished during this year. Prices remain the same. Our quotations are as follows: $2.65 per 100 lbs. keg, for bright, and $3 for galvanized; 25 to 50 lb packages 25c. extra.

Rivets and Burrs—Trade continues to be steady. No change in prices is noted. Best iron rivets, section, carriage and wagon box, black rivets, tinned do., copper rivets and tin swede rivets, 60, 10 and 10 per cent.; swede iron burrs are quoted at 60 and 10 and 10 per cent. off new lists; copper rivets with the usual proportion of burrs, 45 per cent. off; and coppered iron rivets and burrs in 5 lb. carton boxes at 60 and 10 and 10 per cent.; copper burrs alone. 30 and 10 per cent., subject to usual charge for half-pound boxes.

Screws—Screws have a good demand. Some sizes are difficult to obtain. With this exception orders are going forward freely. We quote: Round head, bright, 82 1-2 per cent.; flat head, bright, 87 1-2 per cent.; brass, round head, 75 per cent.; brass, flat head, 80 per cent.

Bolts and Nuts—A noteworthy feature on this market is the marked increase in the demand. Indeed it is so great that rumors are current to the effect that the supply is not equal to the demand. This may have a tendency to change the prices, but as yet this change has not occurred.

Wire Nails—The anticipation of an increase in the building operations during this coming Summer has caused retail merchants to purchase very freely. Prices are firm, but no change has occurred. Our quotations are as follows: $2.25 a keg, f.o.b. Montreal.

Cut Nails—Orders are not arriving as freely as in former years, and the general impression is that the wire stock has displaced the cut nail as an important factor in building operations. Prices remain the same, namely, $2.20 a keg, f.o.b. Montreal.

Horseshoes—The recent advance in steel is the cause for the advance in steel horseshoes this week. Light steel shoes show an advance of 10 cents, while featherweights and toe-weights have advanced 15c. We quote the following: P.B. New Pattern, base price, $3.50 per hundred pounds; M.R.M. Company latest improved pattern iron shoes, light and medium pattern, No. 2 and larger $3.65, No. 1 and smaller $3.90, snow pattern, No. 2 and larger $3.90, No. 1 and smaller $4.15. Light steel shoes, No. 2 and larger, $3.90, No. 1 and smaller $4.15; featherweight, all sizes 0 to 4, $5.50; toe weight, all sizes 1 to 4, $6.75. Packing—Up to three sizes in a keg ten cents per hundred pounds. More than three sizes twenty-five cents.

Horsenails—There is no decided change in the conditions prevailing on this market. Orders are arriving freely. Prices are firm, but no change is expected.

Sporting Goods—A better demand is prevalent on this market. Now that the cheap freight rates have come in force the majority of orders received call for immediate shipment. Prices are firm, and it is expected that a general change will take place. We quote: American centre fire cartridges, list net: sporting and military, 10 per cent. advance on list; primers, $2.05 per thousand; American loaded shells, 20 per cent. discount; B. B. caps, $2 per thousand; C. B. caps, $2.60 per thousand; standard shot, $6.50 per hundred lbs.; chilled, $7 per hundred lbs.; buck and steel, $7.50 per hundred lbs.; ball, $8 per hundred lbs. We quote discounts 15 per cent. on shot f.o.b. Montreal, Toronto, Hamilton, London, St. John, and Halifax.

Rifles—The new discounts that have been received respecting the Winchester rifles and guns are as follows: Single-shot rifles, except models, 1902-1904, and trigger action 15 per cent.; model 1902, $3.75 each net; model 1904, $5.15 net. Repeaters, models 1886 and 1895, 15 per cent.; models 1892 and 1894 27 1-2 per cent. Cannon net list. Winchester shot guns 15 per cent.; Winchester loading tools, 12 1-2 per cent.; Winchester detached sights net list.

Building Paper—Trade in building paper is steady. The majority of retail merchants who supply builders and contractors have concluded stocking up, and no change is expected till after these operations are in full swing.

Cordage—Manila and Sisal rope have the best demand. A few inquiries are beginning to be received by the wholesale houses. Prices continue unchanged.

Cement and Firebrick—The demand for cement on the local market continues to increase, and trade locally has a much brighter aspect. Outside trade is still quiet, and no change is expected to occur until the frost leaves the ground. Trade in firebrick is quiet. We quote the following: English

PORTLAND CEMENT

DRAIN PIPES, CULVERT PIPES,
SEWER BRICKS, INVERTS,
FIRE BRICKS, FIRE CLAY,
BUILDING BRICKS,
FIRE PROOFING
ROAD PAVING BRICKS
and BLOCKS.

Correspondence Invited

F. HYDE & CO.

KING, QUEEN and WELLINGTON STS.
MONTREAL

Deseronto Iron Co.

LIMITED

DESERONTO, ONT.

Manufacturers of

CHARCOAL PIG IRON

BRAND "DESERONTO."

Especially adapted for Car Wheels, Malleable Castings, Boiler Tubes, Engine Cylinders, Hydraulic and other Machinery where great strength is required; Strong, High Silicon Iron, for Foundry Purposes.

"MIDLAND"

BRAND.

Foundry Pig Iron.

Made from carefully selected Lake Superior Ores, with Connellsville Coke as Fuel, "Midland" will rival in quality and grading the very best of the imported brands.

Write for Price to Sales Agents

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MONTREAL, QUE
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Canada Iron Furnace Co.
MIDLAND, ONT. Limited

Get our prices for

GALVANIZED FLAT SHEETS

THE "VANDA" BRAND

For all purposes requiring the best quality.

It is "deadflat," well galvanized, true to gauge and specially soft for working-up. We guarantee every sheet bearing our brand.

C.F. JACKSON & CO., Limited

Wholesale Merchants

Ormidale Block, Vancouver, B.C., and
Liverpool, England

Direct Importers of:

Metals of every description, Wire Rope, Portland Cements, Firebricks, Ore Sacks, Grain Bags, etc, etc.

cement, $2 to $2.10; Belgium, $1.70 to $2.10 per barrel, ex store, and American, $2.15 to $2.25 ex cars; Canadian Portland, $1.90 to $2. Firebrick, English and Scotch, $18 to $22; American, $50 to $35.

Coil Chain—There is a good demand at present from the vessel owners who are busily engaged fitting out their vessels for the coming season. No change is quoted in regard to prices. Our quotations are: 5-16 inch, $4.25 3-8 inch, $3.75; 7-16 inch, $3.55; 1-2 inch, $3.35; 9.16 inch, $3 .30; 5-8 inch, $3.20; 3-4 inch, $3.05; 7-8 inch, $3; 1 inch, $2.95.

Green Wire Cloth—Good sales are reported in green wire cloth, and it is quite evident that trade is better than last year. Our quotations are as follows: Per hundred square feet, $1.50.

Poultry Netting—The strong demand for poultry netting has caused a slight scarcity, and as a result the discounts have decreased 5 per cent. Discounts for two-inch nineteen gauge standard extras at 60 per cent.; for two-inch sixteen gauge the discounts are 55 per cent.

Spring Hinges—The demand continues to be good. Prices remain the same. Our quotations are as follows: No. 5, $7.25 per gross; No. 19 $18 per gross; No. 20, $18.80 per gross; No. 120, $20 per gross; No. 51, $9.25; No. 50, $27.50.

Ontario Hardware Markets.

Office of HARDWARE AND METAL,
10 Front street east,
Toronto, April 21, 1905.

BUSINESS is very brisk in most lines of hardware and the opening of navigation is giving the shipping end a big rush. The railroads have been receiving freight for water shipment for a couple of weeks past and it is only the matter of a few days before the boats will be making for the head of navigation.

Travelers are still pushing such Winter lines as lanterns, skates, blankets and sleigh bells. Summer goods are also in active demand. Woodenware, such as ladders, washing machines, ice-cream freezers, etc., are being ordered in fair quantities. Another article in fair demand is horse clippers.

The quarterly meeting of jobbers was held during the past week, but no changes were made in the ruling quotations. It was expected that some action would be taken regarding wire nails but nothing was done. The demand for wire fencing continues good, although a falling off is expected as the bulk of the business has been placed.

Lawn Mowers — Orders are being actively placed, and shipments are fairly large.

Sporting Goods—Fishing tackle is in strong demand, as is also powder for gun clubs.

Washing Machines—There is a very strong demand for these goods, and in all sections the demand is increasing.

Chain All classes of chains are being called for in large quantities, even lumbermen's chains being still in demand. We quote: ¼ inch, $6.50; 5-16 inch, $1.45; ⅜ inch, $3.85; 7-16 inch, $3.70; ½

Tinplates

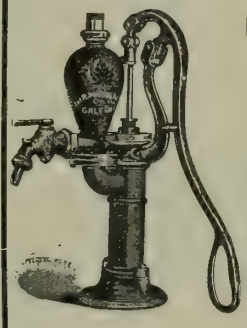
"Dominion" B.B. Charcoal

"Alloway's" Best Charcoal.

"Trym" and "Lydbrook" Best Coke.

Standard brands, best value.

A. C. LESLIE & CO.
MONTREAL.



Enterprising Hardwaremen handle our ANTI-FREEZING PUMPS.

They know that the sale of a good Pump brings about the sale of many other things from satisfied customers.

Do you handle our PUMPS?

Write for catalogue and prices.

The R. McDougall Co., Limited
GALT, ONTARIO.

BAINES & PECKOVER
TORONTO.

Ontario Agents for

B. K. MORTON & CO.'S

"ALPHA"

HIGH SPEED STEEL
AND
Crucible Cast Steel

Large stock on hand. Send for Stock List

NOVA SCOTIA STEEL & COAL CO., Limited
NEW GLASGOW, N.S.

Manufacturers of

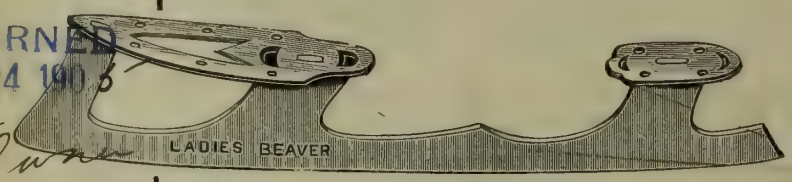
Ferrona Pig Iron

And SIEMENS-MARTIN
OPEN HEARTH STEEL

MORE OF OUR LINES OF

SKATES

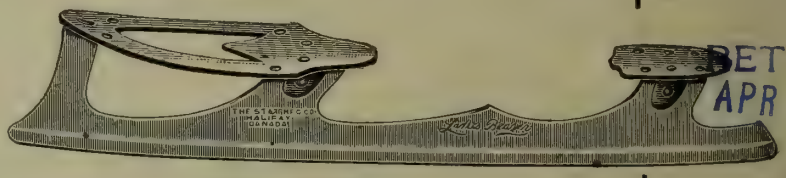
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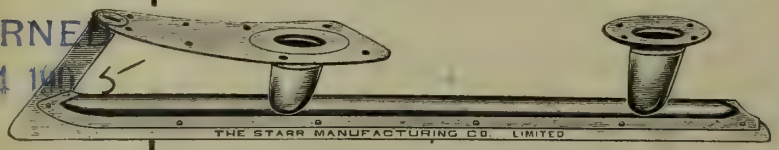
The Ladies' Beaver

The **LADIES' BEAVER** (copyrighted) is the ideal skate for rink use. It is a graceful skate and lends grace to movements. It is also a skate that has "style" and presents a very neat appearance when attached to the boot. It causes the least possible strain.

The **LADIES' BEAVER** is made both with plain and flanged runners. It was made first for ladies' use exclusively; but, having proved so satisfactory for rink purposes, we now make it in larger sizes for men, which are stamped **GENTS' BEAVER**."



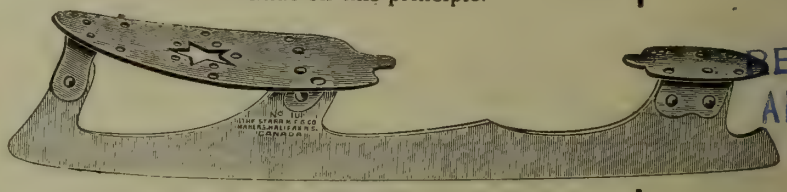
Ladies' Beaver.
With Flanged Runner



The Tube Hockey

For people who want a tube skate, here is one which has been thoroughly tested and found to be equal to the demands made upon it. Our **TUBE HOCKEY SKATE** is as good as it is possible to produce in skates made on this principle.

If you have a customer who goes in for figure skating, the skate to recommend is the **STARR FIGURE**. It was designed for one of the world's most famous fancy skaters and provides all the facility of movement possible.



The Starr Figure

THE

STARR MANUFACTURING CO. LIMITED

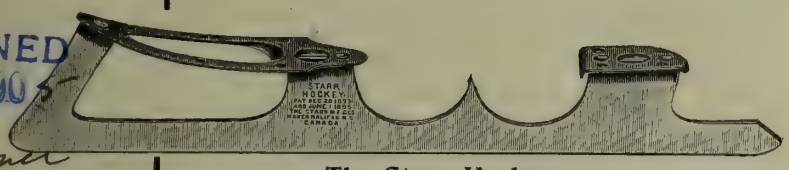
DARTMOUTH, N.S., CANADA

and 59 YORK ST., TORONTO

OUR LINES OF SKATES

GIVE SATISFACTION

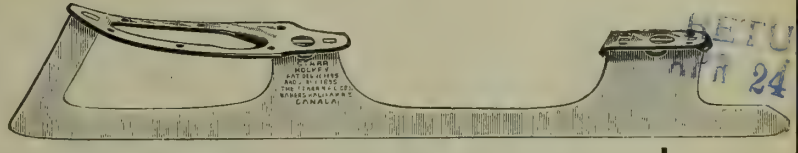
You Should See Our Samples Before Placing Your Order.



The Starr Hockey
With Puck-Stop

A point in selling the **STARR** is the fact that it is the standard hockey skate of Canada. Our other hockey skates all have points which meet various whims and fancies, but the **STARR HOCKEY** is sure to meet the approval of the majority of buyers.

This skate is without doubt the lightest and most rigid high-grade hockey skate produced. It is as perfect as a skate can be made. You may be sure that it will give satisfaction to **any** purchaser.



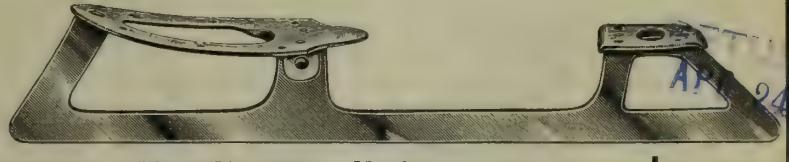
The Starr Hockey
Without Puck-Stop.



The Chebucto Hockey
With Puck-Stop.

The **CHEBUCTO** has been further improved in design and by the addition of a new pattern bracket in the centre. These improvements serve to increase the value of a skate which has always merited the highest confidence.

This skate, which is made with and without puck-stop, meets the ideas of those who have a feeling for a double-ended skate. Note this feature. You can recommend it as a skate of very high quality.



The Chebucto Hockey
Without Puck-Stop

THE STARR MANUFACTURING CO. LIMITED

DARTMOUTH, N.S., CANADA

and 59 YORK ST., TORONTO

RETURNED APR 24 1905 To Owner Cut Book 33 Page 85

inch, $3.55; 9-16 inch, $3.45; ⅝ inch, $3.35; ¾ inch, $3.25.

Step Ladders The demand is very active and a large movement of goods is reported. We quote at 10c. per foot for 3 to 6 feet, and 11c. per foot for 7 to 10 feet ladders.

Extension Ladders—The demand is increasing. Waggoner, 40 per cent. off list.

Galvanized Wire—Trade continues very good under the same quotations. We quote: $2.37½ f.o.b. Cleveland.

Coiled Spring Wire—Prices remain stationary, the demand continuing quite strong.

Barb Wire—The demand for barb wire is still active, although most merchants have stocked up heavily in anticipation of a heavy season's trade.

Wire Nails—Demand is very active, prices being unchanged. Nominal quotations are $2.25 f.o.b. Toronto.

Cut Nails—The call for cut nails is not so strong. Prices remain firm. Quotations are $2.40 per keg f.o.b. Toronto.

Horseshoes—The demand continues quite active. We quote: "P. B." base, $3.65; "M.R.M. Co., latest improved pattern" are: Iron shoes, light and medium pattern, No. 2 and larger, $3.80; No. 1 and smaller, $4.05; snow No. 2 and larger, $4.05; No. 1 and smaller, $4.30; light steel shoes, No. 2 and larger, $3.95; No. 1 and smaller, $4.20; featherweight, all sizes, 0 to 4, $5.50; toe weight, all sizes, 1 to 4, $6.75. If shipped from factory 15c less.

Horsenails — There is a very good demand, and prices remain unaltered.

Screws—The demand continues strong with no change in quotations.

Rivets and Burrs—Trade continues active, prices remaining as before.

Bolts and Nuts — The strong demand continues with all manufacturers busy. Prices are unchanged.

Woodenware—All lines are moving well, this being the season when a large business is done.

Cordage — Demand continues to increase as the Summer season approaches. Quotations continue as follows: Binder twine, Blue Ribbon, 12½c; Red Cap, 11½c; Tiger, 10½c; and Standard, 9½c; manila, 14½c; British manila, 11c; sisal, 10½c; double lathyarn, 10½c; single lathyarn, 10c; sashcord, "Hercules," 30 to 32c; "Star," 36 to 38c; cotton twine, 3-ply, 24c; 4-ply, 29c; calking cotton, 16½ to 17c; cotton waste, colored, 6½c; white, 11 to 13c.

Cement—Builders are ordering in fair quantity, taking advantage of the present low prices. We still quote: For carload orders f.o.b. Toronto, Canadian Portland, $1.70 to $1.80; American Portland, $1.70 to $1.80. For small orders, ex warehouse: Canadian Portland, $2 to $2.10; American Portland, $2 to $2.10.

Firebrick—A fair demand is reported, the opening of the building season having increased the volume of business. Stocks on hand are very light. We quote: English and Scotch firebrick, 30 to 35c; American, low-grade, 25 to 30c; high-grade 32½ to 40c.

Building Paper—Trade in all classes of building materials is brisk, orders being considerably ahead of last season. A large volume of business is coming from the West.

Hides, Tallow, Skins and Wool.

Hides are steady with receipts small and offerings only fair. The range of prices on country hides, flats, is ½c. higher this week than last. A fair quantity of calf skins are offering, but very few sheep skins, either from the country or city.

New clip, unwashed fleece is beginning to arrive, but only in small quantities as yet, and from the sheep breeders only. The wool market is weakening, if anything, and shows a slight drop in foreign wools, which is bound to reflect on Canadian clip. We quote the following prices:

Hides, No. 1 green steers, per lb		0 09
" " 2 " "		0 08
" No. 1 green, per lb		0 08½
" " 2 " "		0 07½
Country hides, flats, per lb	0 6½	0 07½
Calf skins, No. 1, selected		0 11
" " No. 2		0 09
Deacons (dairies), each		0 75
Sheep skins		1 25
Rendered tallow, per lb	0 04	0 04½
Unwashed wool, new clip, per lb	0 13	0 12
Pulled wools, super, per lb	0 21	0 23
" " extra "	0 22	0 24

METAL MARKETS
AND MINING NOTES

THE holiday has affected business slightly, a slight falling off being noticed. The volume of business being placed, however, is very large, activity being shown in nearly all lines, trade in tin, copper and lead ingots being especially active. Competition between sellers is very keen and sales have been made in some cases at less than New York prices.

At the present time practically every blast furnace in the United States with possibly the exception of some small furnaces located at isolated points, is in operation, turning out all the pig iron that can be made. The United States Steel Corporation, which owns 91 blast furnaces, is operating 95 per cent. of its blast furnace capacity. The Carnegie Steel Co., which have 53 blast furnaces, have only three stacks idle at the present time, and these cannot be operated because they are being repaired.

Canadian pig iron has the preference of all different brands of pig iron on the Montreal market. Dealers in American and English pig iron report trade very quiet. During the week merchant steel and black Canada plates have advanced. Firmness in price is the tone of the metal market. The expectations are for a year far in advance of anything in former years. Orders have become less frequent than last week, and it is the general impression that buyers will hold off till after the opening of navigation.

Quebec Metal Markets.

Office of HARDWARE AND METAL,
232 McGill Street.
Montreal, April 21, 1905.

Pig Iron—Few sales are recorded in either English or American pig iron. Prices are all firm and continue unchanged. Our quotations are as follows:

"Disc," No. 1	$16.50	delivered	Montreal.
"Dom.," No. 1	17.50	"	"
Usual difference in price for lower grades.			
Ferrona No. 1	$18 00	delivered	Montreal.
" No. 2	17.50	"	"
" No. 3	16 50	"	"
" No. 4	16.00	"	"
Londonderry	$18.50 to $19.00	"	"
Glengarnock	20.00	"	"
Gartsherrie	19.25	"	"
Carnbroe	18.50	"	"
Carron No. 1	20.00	"	"
" (special)	19.00	"	"
Ayresome No. 1	18.50	"	"
" No. 3	18.00	"	"
Summerlee	20.00	"	"
Clarence No. 1	18.00	"	"
" No. 3	17.50	"	"
No. Cleveland	18.00	"	"

Bar Iron—Trade continues to be fair. Prices remain the same. We quote: Merchant bar, $1.80; horse-shoe iron, $2.02½; forged iron, $2.05; best refined iron, $2.20 net cash thirty days.

Tool Steel—The demand has increased during the week. Prices have become firmer, but there is no indication at present which could point to an advance. We quote: Colonial and Black Diamond, 8c to 9c; Sanderson's, 8c to 45c, according to grade; Jessop's, 13c; Jonas & Clover's, 10c to 20c; "Air Hardening," 65c per lb.; Conqueror, 7½c; Conqueror High Speed steel, 60c.

Merchant Steel—The increase in the demand has resulted in some lines advancing. During the week, toecalk, machinery, iron finish, mild and rivet have each advanced two and one-half cents. Our quotations are as follows: Sleigh shoes, $1.97 1-2: tire, $2.07 1-2: spring, $2.75: toecalk, $2.65: machinery iron finish, $2.10: reeled machinery steel, $2.75: mild, $2 and upwards: rivet, $2.00 and upwards. Net cash thirty days.

Cold Rolled Shafting—A fair amount of orders are arriving. Trade conditions continue unchanged. We quote as follows: Cold rolled shafting, 3-4 inch to 17-16, $3.85 per 100 lbs.; inch and a half to 3 inch, $3.50 per 100 lbs.

Canada Plates—With the exception of an advance of 10c. on black goods, conditions continue unchanged. Our quotations are: 52s., $2.55: 60s., $2.60: 70s., $2.65: full polished, $3.60: galvanized, 52s., $3.90 to $4.00: 60s., $4.15 to $4.25.

Black Sheets—Trade in black sheets remains the same. A fair demand is current and prices continue unchanged. We quote: 28 gauge, $2.15: 26 gauge, $2.10; 22-24 gauge, $2.05; 19-20 gauge, $2.20; 8-10 gauge, $2.30.

Galvanized Iron—At present there is a good demand for galvanized iron, owing to the increased amount of usages to which it has been put. Prices continue unchanged. We quote: Queen's Head, 28 gauge, $4.15; 26 gauge, $3.90; 22 to 24 gauge, $3.65; 16 to 20 gauge, $3.55; Apollo, 28 gauge, $4; 26 gauge $3.75; 22 to 24 gauge, $3.75; 16 to 20 gauge, $3.40; Fleur-de-Lis, 28 gauge, $4; 26 gauge, $3.75; 22 to 24 gauge, $3.50; 16 to 20 gauge, $3.40; Comet, 28 gauge, $3.95; 26 gauge, $3.70; 22 to 24 gauge, $3.45; 16 to 20 gauge, $3.10;

Bell brand, 28 gauge, $4; Gorbal's "Best Best," 28 gauge, $4.15; "Windmill Best," 28 gauge, $3.95; Sword and Torch, 28 gauge, $4.05, in less than case lots, 25c extra.

Antimony—During the week antimony has become easier. Prices have declined. We quote from 9c. to 9 1-2c.

Sheet Zinc—Sheet zinc continues to be firm. Prices continue unchanged. Our quotations are as follows: Case lots, $7.00; small lots, $7.25.

Tin Plates—There is a strong demand for tin plates from the manufacturers of cans, pails, etc. Prices are firm, but there is no indication at present of an advance. We quote the following: Cokes, $3.75; charcoal, $4.00.

Ingot Tin—This market has become easier during the past week. Prices remain the same, but the majority of orders are more inclined to bring 33 1-2c. instead of 34c. The present price ranges from 33 1-3c. to 34c.

Ingot Copper—Copper continues to be very firm. It is impossible to obtain concessions at the prices quoted below. Our quotations are: 16 1-4c. to 16 1-2c.

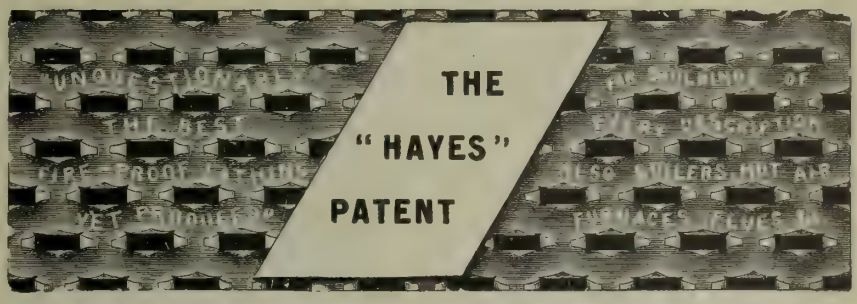
Ingot Zinc—This market still continues to be firm, although prices have become firmer there is no indication of an advance. Orders are moving more freely and more frequently. Our quotations are 6 3-4c. to 7c.

Pig Lead—The continuation of the war in the Far East has warranted the lead market in becoming very firm Several minor advances have been made during the week, but the general market price still continues unchanged. We quote the following: From $3.50 to $3.60, no concessions being obtainable.

Boiler Tubes—This market continues to be steady. There is no marked change in the conditions which were prevailing on this market a week ago. We quote as follows: British and American tube, 1 1-2 inch, 8 1-2c; 2 inch, 8½c; 2½ inch, 10c; 3 inch, 12½c; 3½ inch, 16c; 4 inch, 20c; 5 inch, 45c. Price per foot net.

Scrap Metal and Old Material—At present yellow brass is in good demand, and as stocks are inclined to be scarce the price has advanced from one-quarter to one-half cent per pound. The market for zinc still has an upward tendency, and another advance of one-quarter cent is noted this week. Another decline of one-quarter cent on old rubbers is also noted. The American market on scrap iron has become easier, reports have also been received stating that the English market is being affected in a like manner. The conditions prevailing on the foreign markets will not affect our market for some time, as there is a strong local demand. Our quotations are as follows: Heavy copper and wire, 12 3-4c.; light copper, 11 1-2c; heavy red brass, 10 1-2c.; yellow brass, from 8 3-4c. to 9c.; light brass, 6c.; lead, 2 1-2c.; zinc, 3 3-4c.; machinery cast scrap, $14.00; wrought scrap, $14.00; stove-plate scrap, $11.00; No. 1 country rags, 75c. to 90c. per hundred lbs.; old rubbers, 5c.

METAL LATH



Requires less mortar and 90 per cent. less labor than the inferior varieties that have been stretched until they have little strength left.

The "Hayes" is rigid. It makes a perfect job.

It costs less when applied and plastered than any other. We make it.

You can make money selling it.

THE METALLIC ROOFING CO., LIMITED
TORONTO

Ontario Metal Markets.

Office of HARDWARE AND METAL,
10 Front street east,
Toronto, April 21, 1905.

Pig Iron—The market holds firm with a steady demand. We quote:

Middlesboro, f.o.b., Toronto	$21 00	$21 50
Hamilton, No. 1, at furnace	18 00	18 50
" No. 2, "	17 50	18 00
Midland, No. 1, "	....	18 50
" No. 2, "	....	18 00
Radnor, at furnace	....	30 00
Londonderry, at furnace	16 50 to	17 00

Bar Iron—Prices remain firm, the demand being fairly strong. Quotations continue as follows: $1.90 f.o.b. Toronto, with discount of 2 per cent.; for extras as cut to length, while rolling, 2 feet and over, 10c per 100 lbs.; 1 foot and under 2 feet, 15c; under 1 foot, 20c; over 20 feet, by special agreement according to length and size.

Tin—Considerable business is doing, the competition being rather keen. We quote from 33 to 34c. per lb.

Galvanized Sheets—Firmness is evident, the call for goods being heavy and prices the same.

Tin Plates — The market continues very active and prices firm.

Canada Plates—Conditions are unchanged. The demand is active, with prices steady.

Brass—An active demand exists, and prices continue firm. Discounts are 10 per cent.

Lead—The market is strong and a fair business is being done. We still quote: Pig lead, $3.80 per 100 lbs.; and bar lead, $4.80 per 100 lbs.

Zinc Spelter—The market is quiet but firm. Quotations are: 7c. per lb. for foreign and 5½ to 5¾c per lb. for domestic.

Copper—The demand for copper ingots continues strong and active. Prices remain as follows: Ingot copper, 16¼c. per lb. and sheet copper, 21c per lb.

Antimony—A fair movement is reported. No changes are noted in quotations.

Old Material—All lines are moving nicely with prices about the same. A drop is expected in No. 2 wrought iron. We quote: Heavy copper and wire, 13c per lb.; light copper, 11½c per lb.; heavy red brass, 10½c per lb.; heavy yellow brass, 9c per lb.; light brass, 7c per lb.; tea lead, $2.40 per 100 lbs.; heavy lead, $2.60 per 100 lbs.; scrap zinc, 4c per lb.; iron, No. 1 wrought, $10 to $11; No. 2 wrought, $3 to $5; machinery cast scrap, $14; stove plate, $10; malleable and steel, $5; old rubbers, 5c per lb.; country mixed rags, 65c per 100 lbs.

Coal—Hard coal is in fair demand, while little business is being done in soft coal. New contracts are being booked, however, and coal is arriving by water. Quotations are as follows: Anthracite in cars at bridges: Grate, $5 per gross ton; egg, stove and nut, $5.25 per gross ton; pea, $3 per gross ton.

Standard Hocking, soft coal, in cars, f.o.b. at mines: Lump, $1.35; ¾ inch, $1.25; run of mine, $1.05; nut, 90c; N. P. and S., 60c., coarse slack, 40c; box cars 10 cents per ton additional.

Youghiogheny soft coal in cars, bonded, at the bridges: 1¼ inch, $2.45; ¾ inch, $2.35; mine run, $2.25; slack, $1.90.

For Manitoba Metal Markets see page 36.

MINING NOTES.

The Cape Breton Coal, Iron and Railway Company have awarded contracts aggregating $30,000 for the erection of buildings at their colleries at Broughton, Cape Breton. The buildings include a hotel, private residence, and general offices. The company will spend $250,000 there this Summer.

* * *

George McKenzie, a prospector, claims to have discovered a vast coal area in Northern British Columbia, near the proposed line of the Grand Trunk Pacific.

* * *

In 1904 the mineral production of Ontario was $11,737,647, of which $5,071,677 was metallic and $6,665,970

(*Continued on page 38.*)

HARDWARE CONDITIONS IN MANITOBA.

(Market quotations corrected by telegraph up till 12 a.m. Friday, April 21, 1905.)

Office of HARDWARE AND METAL
Room 406 McIntyre Block,
Winnipeg, Man.

BUSINESS is now very active in all general lines of hardware. City trade in builders' supplies promises to be even larger than last year, and the country demand for the same line of hardware is very brisk. Prices are steady throughout the list quoted below, and the changes noted are not important.

Wire—In all classes of wire fencing and in plain and barbed wire there is a heavy movement at present. We quote:

* * *

Mr. F. Sermon, formerly with A. MacFarlane Co., of Montreal, is now in the employ of The Miller Morse Hardware Co.

* * *

Mr. Theodore Korb, who was at one time in the employ of Lewis Bros & Co., Montreal, is now with The Miller Morse Hardware Co., of this city. Mr. Korb was the compiler of Lewis Brothers' "1,000-page catalogue," and after its completion went to St. Louis to The Simmons Hardwae Co. He is now engaged in compiling a catalogue for The Miller Morse Hardware Co., and if his former work be any criterion by which to judge the trade may expect a thoroughly up-to-date catalogue from this Winnipeg house.

* * *

Barbed wire, 100 lb	$2 85
Plain galvanized, 6 to 8	3 39
" 9	2 50 2 90
Plain galvanized, 10	3 50
" 12	3 10
" 13	3 20
" 14	3 90
" 15	4 45
" 16	4 60
Plain twist	2 85
Staples	3 35
Oiled annealed wire, 10	2 96
" 11	3 02
" 12	3 10
" 13	3 20
" 14	3 30
" 15	3 45

Annealed wires (unoiled) 10c. less.

Horseshoes—Trade is fairly active. We quote:

Horseshoes, iron, No. 0 to No 1	$4 55
No. 2 and larger	4 30
Snow shoes, No. 0 to No. 1	4 80
No. 2 and larger	4 55
Steel, No. 0 to No. 1	4 65
No. 2 and larger	4 40

Horsenails—There is a good demand at present for horsenails. List price and discounts continue as follows:

Horsenails, No. 4—1⅞ in., list price	0 48
" " 5—2 " "	0 32
" " 6—2¼ " "	0 28
" " 7—2¼ " "	0 24
" " 8—2⅜ " "	0 22
" " 9—2½ " "	0 20
" " 10—2⅝ " "	0 20
" " 11—2¾ " "	0 20
" " 12—2⅞ " "	0 20
" " 14—3⅛ " "	0 20

Discounts are as follows: "C" brand 40, 10 and 7 1-2 per cent., "M" brand and other brands 55 and 60 per cent. Add 15c. per box.

Wire and Cut Nails—There is a very active demand and some competition for business. We quote:

Cut Nails—		Wire Nails—	
2d 1 in	$4 00	1 in	4 00
3d Fin. 1⅛ in	4 00	1⅛ in	4 00
3d 1¼ in	3 65	1¼ "	3 65
4d 1½ in	3 40	1½ "	3 40
5d 1¾ in	3 40	1¾ "	3 40
6d 2 in	3 30	2 "	3 30
8d 2½ in	3 15	2½ "	3 15
10d 3 in	3 10	3 "	3 10
20d 4 in	3 05	3½ "	3 05
30d 4½ in	3 00	4 "	3 05
40d 5 in	3 00	4½ "	3 00
50d 5½ in	3 00	5 "	3 00
60d 6 in	3 00	5½ "	3 00
		6 "	3 00

Screws—Trade is very active. Discounts continue as follows:

Screws, flat head, iron, bright	85 and 10 p.c.
Round " "	80 p.c.
Flat " brass	75 and 10 p.c.
Round " "	70 and 10 p.c.
Coach	70 p.c.

Nuts and Bolts—Discounts continue as follows:

Bolts, carriage, ⅜ or smaller	60 and 5 p.c.
" 7-16 and up	55 p.c.
Bolts, machine, ⅜ and under	55 and 5 p.c.
" 7-16 and over	55 p.c.
Bolts, tire	65 p.c.
Bolt ends	55 p.c.
Sleigh shoe bolts	65 and 10 p.c.
Machine screws	70 p.c.
Plough bolts	55 p.c.
Square nuts, case lots	3c. discount.
" " small lots	2½c. "
Hex " case lots	3c. "
" " smaller lots	2½c. "

Rivets—Discounts continue as follows:

Rivets, iron	60 and 10 p.c.
Copper, No. 8	29½
" No. 12	33

Coil Chain—A reduction will be noted in 3-4 inch chain. Other prices are as before. We quote:

Coil chain, 3-16 inch	9.25
" ¼ inch	7.25
" 5-16 inch	5.20
" ⅜ inch	4.60
" 7-16 inch	4.45
" ½ inch	4.30
" ⅝ inch	4.10
" ¾ inch	4.30

Shovels—Discounts on spades and shovels continue 40 and 5 per cent.

Harvest Tools — Discount 60 per cent.

Axe Handles—Trade is quiet. We quote as before:

Axe handles, turned, s.g. hickory, doz	$3 15
No. 1	1 90
No. 2	1 60
Octagon extra	2 30
No. 1	1 60

Axes—We quote:

Axes, chopping	$6 75 to 12 00
" double bitts	12 00 to 18 00

Files—We again quote as follows:

"Arcade"	70 and 10 p.c.
"Black Diamond"	60 p.c.
"Nicholson's"	62½ p.c.

Building Paper—From both city and country trade there is a strong demand. We quote as before:

Anchor, plain	65c.
" tarred	70c.
Pure fibre, plain	67½c.
" " tarred	80c.

Ammunition, Etc.—We again quote:

Ammunition, cartridges, Dominion R.F.	50 and 5 p.c.
Dominion, C.F., pistol	30 p.c.
" military	15 p.c.
Ammunition, cartridges, American R.F.	33⅓ p.c.
C.F. pistol	5 p.c.
C.F. military	10 p.c. advance.
Loaded shells:	
Eley's and Kynoch's soft, 12 gauge black	15 00
chilled, 12 gauge	16 00
soft, 10 gauge	18 00
chilled, 10 gauge	19 00
Shot, Ordinary, per 100 lb	6 25
Chilled	6 75
Powder, F.F., keg, Hamilton	4 75
F.F.G., Dupont's	5 00

Tinware, Etc.—We quote again as follows:

Tinware, pressed, retinned	70 and 10 p.c.
" " plain	75 and 2½ p.c.
" pieced	30 p.c.
Japanned ware	37½ p.c.
Enamelled ware, white	45 p.c.
" Famous	50 p.c.
" Imperial	50 and 10 p.c.

Cordage—The binder twine situation is still unsettled. There has been no change in rope. We quote:

Rope, sisal, 7-16 and larger, basis	11 25
Manila, 7-16 and larger, basis	15 25
Lathyarn	11 25

Solder—Quoted at 21c.

Bluestone—In fairly active demand now at $5.75 per cwt.

Iron and Steel—Prices are steady and unchanged. We quote:

Bar iron (basis)	2 50
Swedish iron (basis)	4 75
Sleigh shoe steel	2 65
Spring steel	3 00
Machinery steel	3 50
Tool steel, Black Diamond, 100 lb	9 50
Jessop	13 00

Black Sheets—The demand is active. Prices continue as follows:

Black Sheets, 10 to 16 gauge, 100 lb	3 50
18 to 22 gauge	3 75
24 gauge	3 90
26 gauge	4 00
28 gauge	4 10

Galvanized Iron—We quote as last week:

Apollo, 16 gauge	4 00
18 and 20 gauge	4 00
22 and 24 gauge	4 25
26 gauge	4 25
28 gauge	4 50
30 gauge or 10¾ oz	4 75
Queen's Head, 24 gauge	4 25
26 gauge	4 50
28 "	4 75

Tinplate—Prices are steady at the recent reduction. We quote:

Tinplate, IC charcoal, 20 x 28, box	9 50
" IX "	11 50
" IXX "	13 50

Ingot Tin—Quoted at 35c.

Canada Plates—We quote:

Canada plate, 18 x 21, 18 x 24	3 25
Canada plate, 20 x 28	3 50
Canada plate, full polished	4 00

Sheet Zinc—Cask lots are quoted at $8.25 per 100 lbs, and broken lots at $8.75.

Pig Lead—Quoted at $4.50 per 100 lbs.

Iron Pipe—City trade continues very active. We again quote as follows:

Black iron pipe, ⅛ inch	
" ¼ "	2 45
" ⅜ "	2 65
" ½ "	3 00
" ¾ "	3 80
" 1 "	5 50
" 1¼ "	7 45
" 1½ "	8 95
" 2 "	12 30

Petroleum—Prices still steady at former figures. We quote:

Silver Star, per gal	20½c.
Sunlight "	21½c.
Eocene "	23½c.
Pennoline "	24½c.
Crystal Spray "	23½c.
Silver Light	21½c.

(In barrels f.o.b. Winnipeg.)

Paris Green—Prices as quoted last week still obtain. We quote:

English Paris Green—Petroleum barrels, 14 1-4c.; arsenic kegs, 14 1-2c.; 50 and 100-lb drums, 15c.; 25-lb. drums, 15 1-2c.; 1-lb. tins, 17c.; 1-2-lb. tins, 19c.; 1-lb. cardboard boxes, 16c.; 1-2-lb. ditto, 18c. Terms 2 per cent. off for cash in 30 days; 90 days net.

Canadian Paris Green—50-lb. drums, 17c.; bulk, 18c.; in 1-lb. packages, 20 cents.

Paints and Oils—Turpentine is very firm, but no advance has been made in local quotations. Oil and lead are unchanged. Prepared paints are moving in large ouantities. We quote:

White lead (pure)	$5 00 to $5 50
Bladder putty, in bbls	0 02½
" " in kegs	0 02¾
Turpentine, pure, in barrels	$ 0 84
Less than barrel lots	0 89
Linseed oil, raw	0 55
Boiled	0 58

Window Glass—We again quote:

16-oz. O.G., single, in 50-ft. boxes—	
16 to 25 united inches	$225
26 to 40 "	2.50
16-oz. O.G., single, in 100-ft. cases—	
16 to 25 united inches	4.00
26 to 40 "	4.25
41 to 50 "	4.75
51 to 60 "	5.25
61 to 70 "	5.75
21-oz. C.S., double, in 100-ft. cases—	6.30
26 to 40 united inches	7.35
41 to 50 "	8.40
51 to 60 "	9.45
61 to 70 "	10.50
71 to 80 "	11.55
81 to 85 "	12.60
86 to 90 "	14.75
91 to 95 "	17.30
6 to 100 "	

RAZOR CABINET GIVEN AWAY.

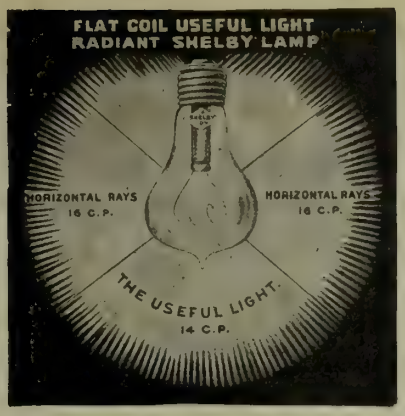
H. Boker & Co. are putting on the market a rather carefully thought out oak cabinet, showing three razors illustrated.

The razors to be sold are fitted nicely over the illustration, so a salesman cannot make an error in placing the samples in position.

The cabinet is placed on the store counter, and is an excellent silent salesman; it will soon find friends among the retail trade as a helper in quick cash sales.

The razors are of three different grades of grinding, and are all fully warranted to be of the very finest quality and temper.

The wholesale trade handles these cabinets, and will send one free with orders for a half-dozen of each of the three razors illustrated.



For Useful Light and Economy
USE
SHELBY LAMPS

Produce 50 percent. more useful light than the ordinary type lamp with the same consumption of current.

For sale by all prominent dealers in Electrical Supplies, at the same price as other lamps.

Manufactured by
ONTARIO LANTERN & LAMP COMPANY
Limited
HAMILTON, Ont.
WALTER GROSE, Selling Agent, Montreal.

FOR **STORAGE** IN **WINNIPEG**

Handling and reshipping of goods. Brick warehouse with track facilities

MACKENZIE BROS. WRITE 244 PRINCESS ST. OR P.O. BOX 579 **WINNIPEG.**

PURE MIXED PAINTS

are what the painter wants and will have. If you cannot supply him with them someone else will; nor can you afford to lose his trade by experimenting with something (just as good), for it cannot be had. We also have a large stock of Dry Colors, Oils, etc.

THE WINNIPEG PAINT AND GLASS CO., LIMITED
WINNIPEG, CANADA

THE PURCHASE OF PAINT

means one of two things, permanent satisfaction or early and lasting disappointment.

Stephens' Pure Paint is the result of intelligent, skilful, painstaking care. They are delightful in the beginning and remain so indefinitely.

This name indicates its quality

Stephens

and means that it will be maintained.

Convenient in form, perfect in quality, pleasing in appearance, absolutely pure and very durable. Every gallon made with Manitoba Linseed Oil.

MANUFACTURED BY
C. F. STEPHENS & CO., Limited,
Paint and Color Makers, - - WINNIPEG, CANADA

CONDENSED OR "WANT" ADVERTISEMENTS.

YEARLY CONTRACT RATES.

100 words each insertion,	1 year		$30 00
" " "	6 months		17 00
" " "	3 months		10 00
50 " "	1 year		17 00
" " "	6 months		10 00
25 " "	1 year		10 00

A GRAND OPENING.

AN Eastern firm manufacturing a full line of ranges, wood cooks, heaters, warm air furnaces, and hot water boilers, are prepared to give the exclusive agency for the sale of their goods in Manitoba and the Territories as far west as Moosejaw to a reliable and progressive stove and furnace dealer, goods to be bought outright. Prices and terms right. Goods already introduced. Apply Box No. 237, Hardware and Metal, Toronto. (17)

MECHANICS WANTED.

FIRST-CLASS stove plate moulders. Steady employment and good wages. Apply direct to Enterprise Foundry Co., Sackville, N.B. (17)

YOUNG men who have had some experience at general tinsmithing to learn cornice work and erect metal ceilings. Good openings for several men who are active and quick to learn. State age and experience. Box 239, Hardware and Metal, Toronto. (18)

MANUFACTURERS' AGENT WANTED.

A BIRMINGHAM house, manufacturing electrical fittings and electroliers of low price grade, are seeking an agent to sell for them in Canada, Box 34, Hardware and Metal, Montreal, or Box A, Hardware and Metal, 88 Fleet St., London, Eng.

MACHINERY FOR SALE.

Rates for first insertion 2c. a word, and for subsequent insertions 1c. a word.

ONE second-hand gap lathe; swings 40 in. and 26 in.; 12-ft. 6-in. bed. Address Box 748, Montreal.

ONE second-hand shafting lathe, 26-in. swing, 20-ft. bed. Address Box 748, Montreal.

(Continued from page 35.)

non-metallic. Wages amounting to $3,838,583 were paid to 10,281 employes.

* * *

The Dominion Coal Company's output for March totalled 228,765 tons.

SEALED TENDERS addressed to the undersigned, and endorsed, "Tender for Pavement, Ottawa, Ont," will be received at this office until Saturday, April 29, 1905, inclusively, for paving a portion of Wellington street, Ottawa, Ont.

Specifications can be seen and forms of tender obtained at this department.

Persons tendering are notified that tenders will not be considered unless made on the printed forms supplied, and signed with their actual signatures.

Each tender must be accompanied by an accepted cheque on a chartered bank, made payable to the order of the Honorable the Minister of Public Works, equal to ten per cent. (10 p.c.) of the amount of the tender, which will be forfeited if the party tendering decline to enter into a contract when called upon to do so, or if he fail to complete the work contracted for. If the tender be not accepted the cheque will be returned.

The department does not bind itself to accept the lowest or any tender.

By order,
FRED GELINAS,
Secretary.

Department of Public Works,
Ottawa, April 11, 1905.

Newspapers inserting this advertisement without authority from the department will not be paid for it. (17)

FOR SALE

1 Pair of Scales (capacity 2,000 lbs.) at a bargain.

Apply Box 238.

Hardware and Metal

10 FRONT STREET E., TORONTO.

The coal shipments of the Nova Scotia Steel & Coal Co. for the first three months of the present year amount to 62,126 tons, against 62,361 tons for the corresponding period a year ago, or a decrease of 235 tons.

* * *

General Manager Cronin, of the War Eagle and Centre Star Companies, has made the statement that the present condition of the two properties will necessitate the employment of not less than 500 men before the end of the present year. The reason for this is the recent discoveries of more high-grade ore in the lower levels of both mines, and the need of an elaborate system of development.

* * *

An order-in-Council has been passed creating the Temiskaming Mining District, covering the areas of the rich silver cobalt deposits discovered on the Temiskaming Railway, and a considerable district to the north. The head office of the district will be at Haileybury, and will be in charge of Mr. Geo. T. Smith, of Mattawa.

* * *

The Dominion Steel Co. is issuing $1,000,000 more of its second mortgage bonds, and $750,000 will be applied at once to extending the plant at Sydney. Three blast furnaces will be operated as soon as the new coke ovens are completed.

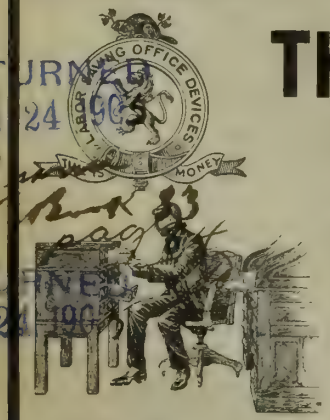
* * *

The Manitoba Iron Works, Winnipeg, are extending their forge shop to double its present size to provide space for heavy bolt forging and threading machines.

* * *

It is stated that the management of the Lake Superior corporation contemplates a radical departure from past plans in the completion of the Algoma Central system. The idea has been advanced that it would be best to first build to a junction with the C.P.R., and push on north to the Grand Trunk Pacific, before completing the line from the

The New and the Old



Why fumble through old letter press books and solid cabinets when you can have a ***Sectional Filing Cabinet*** right behind your desk—within arm's reach?

Write for Catalog No. 335; it explains all.

Everything in Cards and Card Systems in Stock

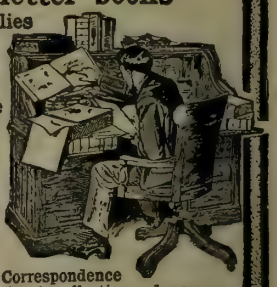
The New Way

THE OFFICE SPECIALTY MFG. CO., Limited

Factories, NEWMARKET. 97-105 Wellington St. (near York), TORONTO

To fumble through clumsy letter books

to find replies which should be filed WITH the original letters is a foolish and expensive waste of time.



Our Correspondence Systems are simple, effective and reasonable in cost. Folder free.

The Old Way

Soo to Michipicoten. The early completion of the line from the Soo to the Helen mine is not pressing, as the company can lay in enough ore during the season of navigation to last through the Winter.

* * *

A German company are taking steps to secure mineral lands in the Sudbury district.

* * *

Three hundred miners are on strike at the Acadia Mines at Westville, N.S. The strike occurred owing to the discharge of a stableman.

TRADE IN BRITISH COLUMBIA.

Vancouver, B.C., April 13, 1905.

ACTUAL operations on the pulp mill to be installed at Swanson Bay, on the northern coast of British Columbia, will be commenced shortly by the Oriental Power and Pulp Co., an organization of British capital which has been spending a good deal of money for the past year or two on surveys of the limits they have had reserved. A wharf, warehouse and saw mill have already been erected. The mill is designed to have a capacity of 100 tons of paper per day, though at first half that output will be made.

* * *

Logging is booming up the coast at present, every camp having started for the season. A. Haslam, of Nanaimo, has completed a 2½-mile logging railway at Jervis Inlet. At the same place E. H. Heaps & Co., of Vancouver, have a large camp, and H. Whitaker, of Sechelt, has eight logging engines at work on his limits in the same place. He has two tugs chartered to haul logs while a small freight steamer carries supplies to his camps.

* * *

Two lumber carriers got away to sea this week. After waiting a week for crew, the Belford sailed for East Africa with a cargo from Hastings' mill. The Haddon Hall sailed with a million and a quarter feet from the same mill for Iquique, Peru. The Cedarbank, which brought general cargo for B. C. ports from England, has been towed to Chemainus, Vancouver Island, to load lumber.

* * *

R. Tait, representing Ontario capital, is contemplating the erection of a large saw mill at New Westminster for eastern trade. The firm of Small & Bucklin is also engaged in putting up a large mill at the same place, and L. W. David the new owner of the old Ross-McLaren mill, the Fraser, which has lain idle for ten years, is ready to start shortly.

* * *

Dawson transportation rates have advanced $25, owing to the breaking up of the Winter trails. The rate from Skagway to Dawson is now $145 per passenger. This will fall, of course, when navigation on the Yukon opens.

* * *

The Telephone Co. has announced its intention of putting its wire underground, and to that end has approached the city council for necessary permission. If the work is undertaken it will be gone on with very shortly.

* * *

The West Kootenay Power and Lighting Co., which own the power of Kootenay River at Nonngington Bonnington Falls near Nelson, are engaged in developing the upper falls, which will add 25,000 h.p. to the energy available for mining in that part of the Kootenay. Rossland, Nelson and Trail districts are served by this plant. Besides, the City of Nelson has a 5,000 h.p. plant, so that power problems have been solved in that section.

TRADE CONDITIONS IN NOVA SCOTIA.

Halifax, April 17, 1905.

BUSINESS in hardware during the last week was fairly good, although the Spring trade has not yet fully opened up. About this time of year a large amount of trade comes in from the shore ports not connected with the city by rail. These ports are now opening up and coasting schooners and small steamers are commencing to run. This week a good amount of business will be done with these ports, and then business will settle down to the average level. The retail trade still continues good.

* * *

An item of interest in the hardware business last week was the fact that the firm of H. H. Fuller & Co. celebrated the completion of their fiftieth year in business. Naturally there are none of the original members of the firm now in the business, but the firm name is still continued, and one of the most successful businesses in this line is energetically carried on.

* * *

The demand for builders' materials, which is always prominent at this season, is not expected to be so great as usual, as reports come from various parts of Nova Scotia that carpenters and other artisans are moving out as there is no expectation of heavy building operations this Summer. However, the local trade appears to be good.

* * *

There has lately been a good business done in carriage makers' hardware, for which there is always a demand at this season of the year—largely in the way of materials for repairs. The demand for tire steel is good and the price is 20c. higher than usual, the advance being made in March. Quotations are: Tire steel, $2.65; spring steel, $2.75; machine steel, $3. The market is firm with an advancing tendency. American manufacturers have advanced carriage bolts 2½ p. c., and a slight advance on nuts.

* * *

Demand for mill and mining supplies has been good. There has not been the usual demand in lumber mill supplies, as the lumber cut, owing to the great depth of snow in the woods, has been small. But the demand for mining supplies is good, as a number of new ventures are being started, especially in gold mining.

* * *

The turpentine market is expected to be very strong this season. Price quoted here now is 98c. for barrels, and 5c. higher for smaller quantities, but "dollar" turpentine is expected at any time. An advance of 9c. was reported the middle of March. The Savannah new crop is now due, and is reported to be smaller than in 1904. A syndicate at that point has already control of nearly the whole output, between fifteen and twenty thousand barrels.

* * *

Though most of the lobster canners make their cans during the Winter season, there is still considerable demand from this source. Stocks are small here, and dealers report difficulty in getting orders filled.

* * *

A large number of small schooners, fishing and trading, are now in port fitting out for their Summer's work. This will liven up for a period the local demand for lines, cordage, canvas, and other outfitting, of which both retail and wholesale houses will receive the benefit.

PERSONAL AND TRADE NOTES.

Mr. Archie Macfarlane, manufacturers' agent, returned to Montreal last week after a flying business trip to Winnipeg.

Purvis Bros., hardware dealers, Webbwood, have dissolved partnership. Charles A. Purvis continues the business alone.

Wm. Hewitt, who 20 years ago ran a hardware store at Yonge and Adelaide streets, Toronto, died last week at the ripe age of 82.

Mr. Geo. Caverhill, of Caverhill, Learmont & Co., wholesale hardware merchants, of Montreal, has left for Atlantic City on a pleasure trip.

Mr. T. H. Newman, of Caverhill, Learmont & Co., of Montreal, attended the meeting of the Wholesale Hardware Association which was held in Toronto last week.

J. William Smith's new store on Main street, Hampton Station, N.B., is lighted by acetylene gas jets. Mr. Smith has laid in a stock of stoves, tinware, hardware and builders' sundries.

Mr. Norman McGillis, until lately with the Laurie Engine Works Co., has accepted a position as traveler with the firm of Frothingham & Workman, Limited, wholesale hardware merchants, of Montreal. His territory will be in Ontario, west of Toronto.

Mr. George M. Chard, of Bristol, Eng., visited Montreal last week with a view to securing agencies of Canadian manufacturers who desire representation in the British market. He intends visiting Toronto and other centres before his return to Bristol.

Mr. Robert Munroe, of the Canada Paint Co., Montreal, spent a few days in Toronto last week previous to going to Clifton Springs, N.Y., for the benefit of his health. The trade will be glad to hear of his return at an early date stronger in physique and more energetic in business activity.

Mr. Harry Potts, for the past two years in the employ of the Smith & Fergusson Co., Regina, has severed his connection with the firm and, in partnership with Mr. Geo. Cook, expects to go into the plumbing and steamfitting business shortly. Mr. C. J. Bernard, of the Gurney Foundry Co., Toronto, takes his place with Smith & Fergusson.

Mr. H. J. Fuller, of the Canadian Fairbanks Co., returned to Montreal from a trip to the firm's branch at Winnipeg. Like most business men who have been West this year, Mr. Fuller is enthusiastic over prospects in that country. Another big building year is anticipated in Winnipeg, some authorities claiming that $15,000,000 will be spent in building operations this year.

The New Business Tax in Ontario in Relation to the Retailer*

IN reply to numerous inquiries from retailers throughout the Province of Ontario as to how they will be affected by the new Assessment Act, which came into force on April 26, 1904, it may be stated at the outset that it has established an entirely new basis of business assessment to take the place of the old "Personal Property Assessment." Formerly a retailer was interviewed by the assessor, who determined his business assessment according to the retailer's own valuation of the amount of business turned over from year to year. The objection to this scheme was that the retailer was enabled to evade taxes by making use of such subterfuges as personal indebtedness, credits, etc. It was an ideal system for use in an ideal community, but lacked the machinery to make it satisfactory as far as practical working out was concerned.

Business Assessment.

According to the new business assessment a retailer's taxes are computed on the assessed value of the business premises he occupies.

In towns where the population is under 10,000 his business assessment is fixed at 35 per cent. of the assessed value of the property occupied for business purposes. Where the population is over 10,000 and under 50,000 the percentage is 30 per cent., and where it is over $50,000, 25 per cent. The minimum assessment according to the new Act is placed at $250; this means that in the event of a grocery or general mercantile establishment being assessed for less than $250, the proprietor cannot be assessed for business purposes below this amount.

The question may be raised by the retailer that he does not occupy the whole of his store for business purposes, but rents say one-third of it to other parties or as a residence for himself. Very well; the business rating is applied only upon so much of the premises as are occupied for business purposes. For, instance, a retailer in a town of less than 10,000 inhabitants occupies premises assessed at $3,500 and sublets say one-third of the building. His business rating then will be on two-thirds of the whole premises, or on $2,333, and his business assessment on 35 per cent. of this, or $816.

Thus the retailer may, by referring to the assessment roll, place himself in a position to know the taxes chargeable against his business, subject, of course, to any future increase in realty. He is not concerned at the approach of the assessor, he is not called upon to submit a statement of his assets and liabilities, nor is he asked any question whatever regarding the particulars of his business. The assessor simply enters his name in the roll and rates him as a retailer, after which his business assessment becomes automatically fixed. The same method applies to the distiller, the brewer, the wholesaler, the manufacturer, the departmental store, the coal and wood dealer, the lithographer, printer, or publisher; in fact, all engaged in business pursuits, their ratings varying from 150 per cent. to 25 per cent. of the assessed value of the land occupied or used for such business.

Manufacturers and Wholesalers.

In the case of departmental stores, having more than 5 branches in separate departments, the business assessment is 50 per cent. of the assessed value of the premises where this exceeds $20,000. In the case of wholesale houses the percentage is 75 and in that of manufacturers 60. Manufacturers are not liable to business assessment as wholesale merchants by reason of their carrying on the business of selling the goods of their own manufacture on the premises used by them for manufacturing purposes. It may be added that any person liable to business assessment is not liable to taxation on income derived from his business.

Manufacturers' agents, brokers, etc., are not liable to the business tax, but come under the income tax according to sub-section 5 of Section 10 of the new Act.

The new assessment is to be commended in so far as it is easy of application and entirely avoids the necessity of the assessor delving into the affairs of business men. It cannot be claimed, however, that the new system is equitable from a basis of wealth; in fact, it cannot be, for the reason that a percentage of the assessed value of the land is taken as the business assessment in lieu of the value of personal property. Large capital is employed in small premises, and vice versa; but it has this effect, that no one escapes and all contribute more or less to the burden of taxation. If a comparison is made with the former assessment of personality, there will be found more inequalities that will probably be shown under the new Act. No one ever contended that personal property was or could be successfully assessed; much of it could not be seen. Debts due on account of personality were to be deducted, and the statement is ventured that not one tenth of the personal property liable to assessment is or was assessed. The assessor could not cope with the artifices employed, and beside very imperfect machinery was provided under the Act to assist him in the discharge of his duties.

New Tax an Improvement.

The business men as a whole should, and it is believed do, welcome the change in the new Assessment Act; they now know that the assessor cannot go beyond the rating fixed by the Act. Formerly, because of their under-assessments which have been handed down as heirlooms to succeeding assessors, they could not say where the assessment was to stop, as they were liable to an increase year after year, so long as the amount assessed did not exceed the actual assets of the business; all this depending upon the activity of the assessor. This is now done away with and as "new brooms sweep clean," it is confidently expected that the business assessment will show a vast improvement upon the attempt for the past 30 or 40 years to assess personal property as defined under the Act.

Scarcely sufficient time has elapsed since the introduction of the Act to warrant any statement as to its effect upon the retail trade. The general opinion, however, seems to be that, with the possible exception of cities and large towns, the retailer is going to benefit very considerably in the matter of taxes.

Income Tax.

Some important changes have also been introduced by the new Assessment Act in regard to the income tax. Instead of an exemption up to $1,000 on personal earnings and up to $400 on income derived from other than personal earnings, there is now no exemption on other than personal earnings, and except in the case of householders, an exemption on personal earnings only up to $400, householders enjoying an exemption up to $1,000. The provisions of

* For the material used in this article this paper is indebted to Mr. J. C. Forman, Assessment Commissioner, Toronto.

the Act in respect to the income tax are as follows:

1st.—The annual income derived from personal earnings or from any pension, gratuity, or retiring allowance, in respect of personal services, in a city or town having a population of over 10,000, is exempt to the extent of $1,000, and is assessable at the place where he is a resident thereof; and where he is not a householder according to the assessment roll, the exemption in $400.

2nd.—There is no exemption mentioned as to income received or derived from other than personal earnings, therefore such class of income is assessable on the full amount as under sub-section 8 of section 2, "Income" is defined (in part) and shall include the interest, dividends, or profits, directly or indirectly received from money at interest upon any security, or without security, or from stocks, or from any investment, and also profit or gain from any other source whatever.

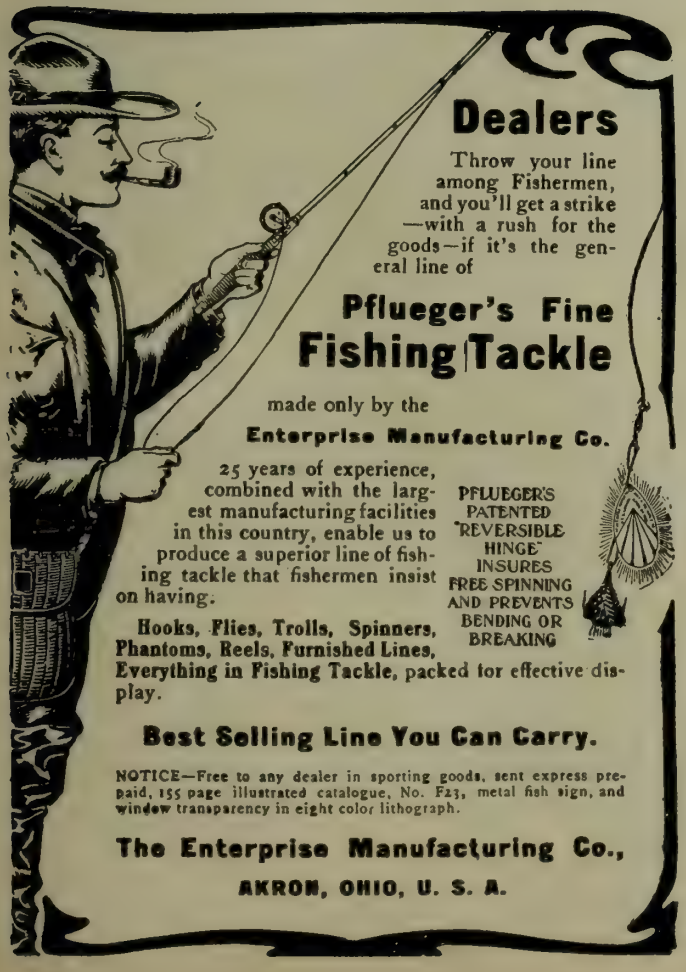
Everyone Liable.

The chief result of this will be the insertion of the name of every resident of every municipality in receipt of income from other than from personal earnings, with the full amount of such income. Thus the dividends from all financial corporations such as banks, insurance and loan, and trust companies, become liable on the full amount as against the resident shareholders in Ontario. This, while providing additional assessment under the heading of income, takes away to a considerable extent the charge that such financial institutions as those named were escaping their just assessment, as it is reasonable that such companies and their shareholders should not be both assessable. It also makes up for the loss now sustained by practically the non-assessment of the income of these companies.

A reference is now made to the legal and medical professions, the dentist, the civil or electric engineer, surveyors, architects, and others, all these are subject first to a business assessment, irrespective of what the income may be. If the income derived is beyond the amount of the business assessment, then the amount of the income in excess of the business assessment is the basis of the assessment, subject to the statutory exemptions. Thus no professional man escapes taxation, and under sub-section 3 of section 10, no less an amount than $250 shall constitute a business assessment.

Successful Machinery.

It might be said here that the clause relating to professional men originally contemplated assessing them on a business assessment only, but was afterwards amended to the above; indeed, the strictest endeavor has been made to omit no class of income properly liable to assessment. In section 11, sub-section "A," every person not liable to business assessment shall be assessed and taxed in respect of income,—so that it at present appears no one can escape. While this is just and all are made liable to assessment (saving exemptions) the mere fact of being liable would not help so very much, if machinery were not given the assessor to help him out, so sections 16 to 21, some new and others amended as compared with the old Act, have been inserted. From these it will be seen that employers are to give or furnish to the assessor the names, places of residence, and wages, salary, or other remuneration of their employes. Section 19 requires corporations to furnish the assessor with a list of the resident shareholders of the municipality requiring the same. Then comes section 21, which provides a penalty of $100 and an additional penalty of $10 for each day during default. The Act, therefore, so far as touched upon, seems not only workable, but of vast improvement.



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A Chain

Is no Stronger than Its Weakest Link and

Kinked Fence

is no Stronger than its WEAKEST KINK

In most factory-made fences there are over 1,000 of these kinks, or weak spots, in each 100 rods.

Would You Buy It?

Of course not if you knew all about it.

London Fences are coiled—not kinked. The strands retain their original strength.

The reduced price on ***London Fence Machine*** outfits is making big sales. Hurry in your orders before the rush.

LONDON FENCE MACHINE CO., Ltd.

LONDON - - ONTARIO

PAINT, OIL AND BRUSH TRADES

The Illumination of Dark Places.

FRESNEL, the French physicist, is credited with being the first to turn to practical account the valuable refractive property of the prism, by means of which he found he was able to project a powerful beam of light upon the object which he was desirous of illuminating. Within the last few years the principle has been extensively utilized, and various forms of the Fresnel lens have been devised with the object of more efficiently lighting by means of natural daylight dark and frequently otherwise useless apartments and spaces. Improvements have suggested themselves from time to time, the latest being an ingenious combination of lens and prism which produces an astonishingly satisfactory result.

This is the MAXimum Light Glass, a patent daylight-increasing glass, which is made in sheets of any size, the outside of which is formed of parallel lens bars of large radius, while the inner side is formed of parallel prism bars placed at right angle to the lens bars. The function of the external lens forms is to refract the light in a horizontal direction, and to make use of lateral rays which would strike at so great an angle that they would be almost entirely reflected from a plane surface. The forms of these lenses is such that there is no reflection from the inner face of the prism, thus securing the emission of all rays that strike these surfaces. The function of the internal prism forms is to refract the light in a vertical direction, which, combined with the horizontal refraction of the external lenses, produces nearly uniform diffusion of light in the room. All the light is gathered and utilized, there is a complete absence of glare, and all streakiness of effect is avoided.

—

How to Mix Paint.

THE above is the title of a book recently issued by the Industrial Publication Co., New York, the author being C. Godfrey. The book comprises 64 pages, the price being 50c. Orders can be sent to Hardware and Metal's technical book department, or direct to the publishers by mentioning this paper.

This book is intended, the author says, to aid those who have not had a long experience to become practical painters, and by this he evidently means house painters, as he scarcely touches upon the art of carriage painting or anything but the simplest kind of decoration.

The formulas given for making various popular colors, shades or tints can only be regarded as suggestions, because they must necessarily deal with names of pigments—names which can have no definite meaning in respect to strength or purity of tone. Suggestions of this kind are, however, of the greatest help to the painter who wishes to be progressive as they serve to crystalize and bring into definite form things which he already knows in the abstract, induce new lines of thought and new desires for experiment and practice which alone makes perfect in the art of color mixing.

Certain statements laid down by the author are subject to criticism. He says, "White added to any color gives a tint of that color; black added to any color gives a shade of that color." Now black added to chrome yellow, for instance, does not give a shade of yellow, but gives an olive or bronze green.

The advice on the care and keeping of brushes offers many valuable hints and is worthy of the careful notice of the painter, but in this country it would be folly to proceed according to any fixed rule without first observing the caution or notice almost always given with each particular brush by its manufacturer. To "thoroughly soak" in water a glue-set paint brush would probably lead to disastrous results.

The book contains a fine explanatory index covering even more than its subject matter. It can be recommended to the painter as a practical aid in his work and as a whet to his desire for greater proficiency.

—

How to Test Turpentine.

To test the purity of turpentine drop a small quantity on a piece of white paper and expose to the air. No trace will be left if the turpentine is pure, but if it contains oil or other foreign matter the paper will be greasy.



What Should a Good Paint Be?

One season handling Hollywood brand will convince you that it is what it should be—

GOOD PAINT TO COVER
GOOD PAINT TO WEAR
GOOD PAINT TO SELL

What more do you want? Hollywood Paste, Ready-Mixed and Floor Paints wear on the job, not off it.

The Imperial Varnish & Color Co.
LIMITED,
TORONTO, ONTARIO, CANADA.

P. S.—Elastilite Varnish.

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Page No. 59

TO THE VARNISH BUYER

the most serious considerations are quality, reliability and uniformity, and these qualifications are of special importance to the dealer who is trying to build up a permanent varnish trade.

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Our varnishes are the safest goods to handle and the surest and most reliable goods to use.

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VARNISH MANUFACTURERS
WALKERVILLE, ONT.

Write for our 100 page illustrated catalogue. Every dealer should have a copy for reference.

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Glue and Gelatine

An extensive assortment, to suit all requirements.
WILL BE PLEASED TO SUBMIT SAMPLES AND PRICES

MANUFACTURERS AND IMPORTERS OF . . .

White Lead, Oils and Colors, Prepared Paints, Window Glass, Varnishes, Etc.

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Imperial French Green
of JOHN LUCAS & CO., PHILADELPHIA.

And CELEBRATED
English Varnishes
of CHAS. TURNER & SON, LONDON.

Please mention HARDWARE AND METAL when writing.

IMPERIAL FRENCH GREEN

is preferred by skilled painters because of its fineness of texture, covering capacity and great durability. Acknowledged to be more permanent than Nature's Greens.

Insist on it once and you will always use it.



Be sure this label is on the can and take no other. See sample cards.

JOHN LUCAS & CO., MFRS.,
PHILADELPHIA, NEW YORK, CHICAGO.

MACARTHUR, CORNEILLE & CO., MONTREAL

It Stands to Reason

that a ***Liquid Paint,*** the only White Lead in which has been the ***World's Standard*** for the last ***186 years,*** must naturally be a very ***superior article.*** This is our claim, which is vindicated by people who have used

"ANCHOR LIQUID HOUSE PAINTS"

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Manufactured by

HENDERSON & POTTS, Limited

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HENDERSON & POTTS CO., LIMITED

MONTREAL and WINNIPEG

Paint and Oil Markets

Quebec.

Office of HARDWARE AND METAL,
232 McGill Street,
Montreal, April 21, 1905.

ALTHOUGH the new crop of turpentine is being gathered, prices have not declined, as usual, but have advanced owing to the light stock on the local market. The new crop, if not large, is expected to be of such a volume as to warrant a change in price, which will in all likelihood change prices to their recent value. Linseed oil has become firmer for both immediate and future shipments, and it is probable that an advance will occur in the near future. Orders for ready-mixed paints continue to arrive as frequently as previously mentioned. A few orders are beginning to arrive for Paris green, but, as it is vet early in the season, nothing of an extensive nature is expected to be accomplished before the beginning of June. The condition of the white lead market still continues to be unsteady. No change in these conditions is expected to come into effect before the tariff has been changed. The majority of orders arriving during the past week have been of an assorting-up character.

LAST MINUTE REPORT.

Linseed oil has advanced 2c. in Toronto, and is now quoted at 52c. for raw and 53c. for boiled.

Canadian Paris Green—Prices continue unchanged. Our quotations are as follows: Barrels, 15 1-4c.; arsenic kegs, 15c.; 50 and 100 lb. drums, 16c.; 25 lb. drums, 16 1-2c.; one pound packages, 17c.; half-pound packages, 19c.; one pound tins, 18c. Terms 2 per cent. discount for cash in 30 days or 90 days net.

English Paris Green—Pure English Paris green, petroleum barrels, 15 1-4c.; arsenic kegs, 15 1-2c.; 50 and 100 lb. drums, 16c.; 25 lb. drums, 16 1-2c.; one pound paper boxes, 17c.; one pound tins, 18c.; one-half pound paper boxes, 19c.; one-half pound tins, 20c. Terms, 2 per cent. off thirty days, or ninety days net from date of shipment.

Turpentine—Single barrels, 89c. per gallon; two to four barrels, 88c. per gallon. For smaller quantities than barrels 5c. extra per barrel is charged. Standard gallon is 8.40 lbs., f.o.b. point of shipment net thirty days.

Linseed Oil—Raw, one to four barrels, 46c.; five to nine barrels, 45c. Boiled, one to four barrels, 49c.; five to nine barrels, 48c., f.o.b. Montreal. Net thirty days.

Ground White Lead — Best brands Government standards, $4.70 to $4.85; No. 1, $4.45 to $4.60; No. 2, $4.20 to $4.35; No. 3, $3.87 1-2 to $3.97 1-2; No. 4, $3.50 to $3.60, all f.o.b. Montreal.

Dry White Zinc—Pure dry in casks, 7c.; in 100 lb. kegs, 7 1-2c.; No. 1 zinc, in casks, 6c.; in 100 lb kegs, 6 1-2c.

White Zinc (ground in oil)—Pure, 25 lb. iron, 7 1-2 to 10c.; No. 1, 6 1-4c.; No. 2, 5 1-4c.

Putty—Pure linseed oil 175 to 185. Bulk in barrels, $1.50; in 25 lb. irons, $1.80; in tins, $1.90; bladdered putty in barrels, $1.75.

Orange Mineral—Casks, 7 1-4c.; 100 lb. kegs, 7 1-2c.; smaller quantities, 8 1-2c.

Red Lead—Genuine red lead in casks, $4.50 in 100 lb. kegs, $4.75; in less quantities at the rate of $5.75 per 100 lbs.; No. 1 red lead, casks, $4.25; kegs, $4.75, and smaller quantities, $5.50.

Shellac Varnish—Pure white, $2.60 to $2.80; pure orange, $2.55 to $2.65; No. 1 orange, $2.30 to $2.45.

Mixed Paints—$1.20 to $1.40 per gallon.

Castor Oil—8 3-4c. to 9 1-4c. in wholesale lots, and 1-2c. additional for small lots.

Litharge—Ground, in casks, 5c.; in less quantities, 5 3-4c.; flake litharge, casks, $5.50; smaller quantities, $6 per 100 lbs.

Refined Petroleum—The recent decline in crude petroleum has caused a decline to occur in the refined article. The market is inclined to be unsteady, but there is no strong tendency for an advance. Our quotations are: American prime white, 14 1-2c.: American water white, 16c.

Ontario.

Office of HARDWARE AND METAL,
10 Front Street East.
Toronto, April 21, 1905.

LINSEED oil continues to advance in England, each day showing a firmer and slightly higher quotation. No advance is recorded here over last week's figures, but a rise is expected during the next few days owing to the strength being developed in England. Turpentine is a trifle easier, some new stock having been received in the South. None has been received here as yet, however, and the higher prices will probably rule for another week or so.

Refined and crude oil have dropped a per the former half a cent per gallon. White lead continues firm.

A large business is being done in paint materials, varnishes, etc., while Paris green is also in active demand, although the bulk of the shipments have been made. Glass continues strong, and there is no indication of any lowering of quotations. Some importations are arriving, and a fair number of orders are being received.

White Lead—Ex-Toronto, pure white lead, $4.75; No. 1, $4.37 1-2; No. 2 $4; No. 3, $3.62 1-2; No. 4, $3.35 in pack-

GRANITE FLOOR PAINT

Quick Drying and Durable—A Rapid Seller.

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PRATTS ASTRAL LAMP OIL

Sold in all countries and recognized as the highest grade oil manufactured.

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THE QUEEN CITY OIL COMPANY, Limited
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We Have the Glass You Want

—THE PRICE IS RIGHT.—

Our Distributing Centres keep down your freight charges and give a speedy delivery

The Consolidated Plate Glass Co., of Canada, Limited
TORONTO MONTREAL LONDON
OTTAWA WINNIPEG

WHITE LEAD BUYERS, ATTENTION

205 ST. JAMES STREET

CANADIAN STANDARD

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MONTREAL. 479001

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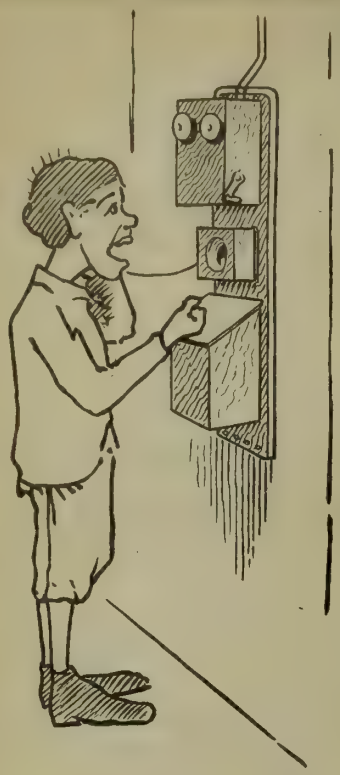
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is the name of the brand of **Paints** for use on **Floors** and **Houses**, which give satisfaction wherever used. Guaranteed to dry

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Eight Hours

P. D. DODS & Co., Montreal — Toronto — Vancouver



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High-Pitched Soprano

or a

Loud Voice

is not necessary in telephoning orders to **THE CANADA PAINT COMPANY,** in Toronto or Montreal.

No matter whether you are on the Long Distance or Short Distance, a good healthy whisper will put you in telephonic connection with the trained salesmen of **THE CANADA PAINT COMPANY,** in Montreal or Toronto.

Telephone orders are appreciated—

Telegrams receive particular care—

Travellers' orders are a delight—

Letter orders are welcome, always—

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MANUFACTURERS

MONTREAL TORONTO

ages of 25 lbs and upwards; 1-2c. per lb. extra will be charged for 12 1-2 lb packages; genuine dry white lead, in casks, $4.25.

Red Lead—Genuine in casks of 560 lbs., $4.50; ditto, in kegs of 100 lbs., $4.75; No. 1, in casks of 500 lbs., $4 to $4.25; ditto in kegs of 100 lbs., $4.50. in casks, $6.50 to $7; Lehigh, in casks, $6 to $6.50.

Shingle Stain—In 5 gallon lots 75 to 90c. per gallon.

Paris White—90c. to $1 per 100 lbs.

Whiting—60 to 65c. per 100 lbs; Gilders' whiting, 75c.

Shellac—Pure orange in barrels, $2.75 to $3; white, $2.85 to $3.10 per barrel; No. 1 (orange), $2.25.

Linseed Oil—Our quotations are: Raw, 1 to 4 barrels, 50c.; boiled, 53c.; 5 to 9 barrels, raw, 49c.; boiled, 52c., Toronto, Hamilton, London, and Guelph, net 30 days. Advance of 2c. for delivery to outside points.

Turpentine—Single barrels, 88 to 90c.; 2 to 4 barrels, open; 5 barrels and over, open, f.o.b. point of shipment, net 30 days. For less quantities than barrels, 5c. per gallon extra will be added, and for 5 gallon packages, 50c., and 10 gallon packages 80c. will be charged.

Paris Green—600 lb. barrels, 13 1-4c.; 250 lb kegs 13 1-2c.; 50 lb drums, 14 1-2c.; 1 lb. packets, 15c.

Glues—Broken sheet, in 200 lb. barrels, 5 to 25c. per lb.; cabinet glue, in barrels, 11 1-2 to 12c.; emery glue, in barrels, 15c.; bookbinders' ground, 11 1-2c.; finest American white, 19c.; No. 1 American white, 15c. per lb.

Putty—Ordinary, bladders in barrels, $1.65 to $1.75; pure linseed oil, $2 to $2.10; bulk in barrels, $1.50; pure, $1.95 to $2; 100 lb. kegs 25c. extra.

Plaster Paris—New Brunswick, $2 per barrel.

Liquid Paints—Pure, $1.20 to $1.35 per gallon; No. 1, $1.10 per gallon.

Barn Paints—60 to 70c. per gallon.

Bridge Paints—75c. to $1.

Castor Oil—English, in cases, 8 1-2 to 9c. per lb., and 10c. for single tins.

Refined Petroleum—Business is more active with no change in prices. We quote: Water white, 16c.; Canadian prime white, 14 1-2c.; American water white, 16 1-2c. to 18 1-2c. ex warehouse.

Crude Petroleum—Prices have fallen slightly. We quote: Pennsylvania, $1.31; Corning, $1.06; Newcastle, $1.31; North Lima, 92c.; Tiona, $1.54; South Lima, 88c.; Somerset, 81c.; Indiana, 88c.; Canadian, $1.28.

Glass—See current quotations at the end of this issue.

Window Glass.

MONTREAL.

Conditions on the foreign market have improved considerably during the past week. Present indications in Belgium point to a reopening of all the tanks within a few weeks, and it is expected that the industry shall be under full headway by the end of May. This good prospect of the early arrival of orders will not affect prices, as the market during the past few weeks has been almost flooded with orders owing to the increase in trade this year, and it will take considerable time to resettle the market to its former state before the strike began. Conditions on the local market continue unchanged. We quote as follows: First break, 50 feet, $2.00; second break, $2.10; first break, 100 feet, $3.75; second break, 100 feet, $3.95; third break, 100 feet, $4.50; fourth break, 100 feet, $4.75; fifth break, 100 feet, $5; sixth break, 100 feet, $5.50; seventh break, 100 feet, $6.00; and eighth break, 100 feet, $6.50. Diamond star, first break, 50 feet, $2.30; second break, 50 feet, $2.50; first break, 100 feet, $4.40; second do., $4.80; third do., $5.75; fourth do., $6.50; fifth do., $7.50; sixth do., $8, and seventh do., 9. Double thick, first break, 50 feet, $3.45; second do., $3.75; first break, 100 feet, $6.75; second do., $7.25; third do., $8.75; fourth do., $10; fifth do., $11.50; sixth do., $12.50; seventh do., $14; eighth do., $16.50; ninth do., $18; tenth do., $20; eleventh do., $24, and twelfth do., $28.50.

BUSINESS IN THE WEST.

MR. WILLSON, of McDonald & Willson, manufacturers of electrical and gas fixtures, returned to Toronto last week after a business trip to Winnipeg and the West. Mr. Willson reports business to be rather overdone, as while the population is growing rapidly and more goods are being bought this year than in any previous season, there is tremendous competition amongst wholesalers and manufacturers to get a share of the business, the number of travelers doing the country being very large. The boom at Fort William is reported to be even greater than the balloon days of real estate in Toronto and Vancouver, unimproved land which was $5 or $6 per foot a short time ago now selling for from $50 to $100.

BIG CARGO OF NAILS.

The steamer Haddington sailed from Collingwood this week for Port Arthur and Duluth, carrying about 1,000 tons of wire nails, consigned to the Northwest. Most of the cargo is consigned on the order of Lewis Bros., wholesale hardware, Montreal. The nails were all manufactured at the Imperial Steel & Wire Co's. works at Collingwood, and this is said to be the largest single consignment of wire nails ever shipped from a Canadian mill. The consignment represents about three weeks' work of the plant running night and day, and took about thirty cars, or a whole train, to carry it from Fort William to Winnipeg. The wire works and nail plant have been running twenty-four hours a day for the last two months, and are turning out a very large tonnage.

SHEFFIELD FILE AND TOOL TRADES.

IN the file trade an improvement has been noticed since the beginning of the year. This, though slight, is very welcome, as the trade up to the end of December had been anything but satisfactory. The improvement not only affects the file manufacturers themselves, but the makers of file-making machines as well, though it must be confessed that the latter do not anticipate such a large benefit as the former, as, for the most part, shops are well filled with machines. This filling up took place about four or five years ago, when there was a boom in the trade, and, of course, then the file makers got in all the machines that were necessary. For some time past the machines have been standing idle, but with improved trade they will soon be moving, and there is confidence that the improvement will continue. Some file-making firms are very busy, the trade being generally with regular customers. In more than one instance makers of file-cutting machinery are turning their attention to the manufacture of motor cranks, and splendid prospects are reported.

The tool trade also shows signs of improvement, and in some quarters it is said that the past three months have been the best experienced during the last two years. Prices, however, are no better, but there is more confidence throughout the trade generally. The demand for motor tools is now becoming more marked, and a great development in this direction is looked for.

CANADIAN AGENT WANTED.

A Birmingham house, manufacturing electrical fittings and electroliers of low-price grade, are seeking an agent to sell for them in Canada. Letters of inquiry regarding this agency addressed to any of our offices will be immediately dealt with.

McCLARY'S EMPLOYES CELEBRATE.

The extensive new warehouse of the McClary Manufacturing Co. at London was the scene last Friday night of one of the most enjoyable affairs that the employes of the company have ever entered into. It was announced several weeks ago that the new building would be opened by a dance on a large scale, and those in charge have been working steadily to insure the success of the event. That they succeeded, everyone present will agree. The affair was under the patronage of the McClary Benefit Society and the McClary Baseball Club.

McCaskill, Dougall & Co.

Manufacturers

RAILWAY, CARRIAGE AND BOAT **VARNISHES.**
HIGH-GRADE FURNITURE and HOUSE VARNISHES

MONTREAL.

GLUES AGAIN Our **IMITATION FRENCH MEDAL GLUES** are of such high class and are so suitable for Export that we would like to quote you. Export trade in this line is growing rapidly, and we pack in casks or cases as preferred. Quality unrivalled.

GROVE CHEMICAL CO., LTD., Appley Bridge, Lancashire, Eng.

O-SO-EZY

The Best Hardwood Floor Dressing and Furniture Polish

IN BBL. LOTS $1.50 PER GAL. SINGLE GALS., $1.75.

AGENTS WANTED. For further particulars write

O-So-Ezy Mfg. Co., Limited, 205 St. James St., Montreal

ASK YOUR JOBBER FOR

GILBERTSON'S

COMET

Brand Galvanized Sheets

are **NOT** a cheap grade, although the price is low. Every sheet guaranteed.

Makers: W. GILBERTSON & CO., Limited Pontardawe, South Wales.

THE LEADERS



STYLE "A"



STYLE "E"

Style "A" with Double Reversible Steel Bow Lever, Patented Cream Breakers.

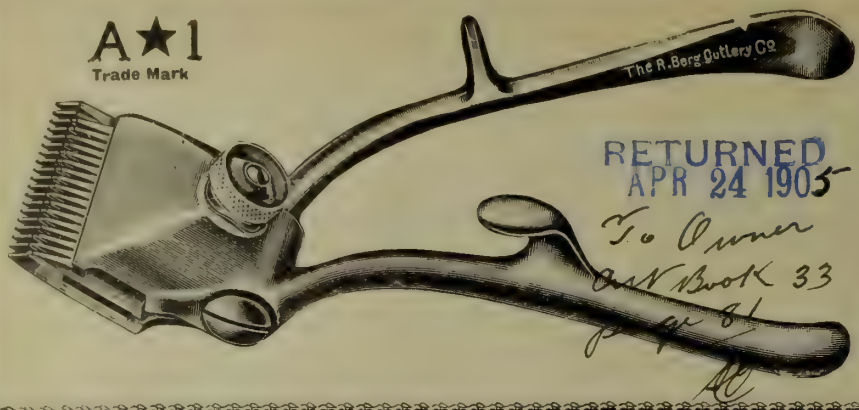
Style "E" with Hand and Foot combination drive and spring attachment, producing an easy and elastic motion.

The Pittman is quickly detachable from churn.

Both styles are fitted with our improved Steel Ball Bearings and mounted on Rigid Angle Steel Stands.

THE DOWSWELL MANUFACTURING CO., LIMITED
HAMILTON, ONT.

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Trade Mark



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The "MARS"
Toilet Clipper

Made in 5 sizes with or without extra combs.

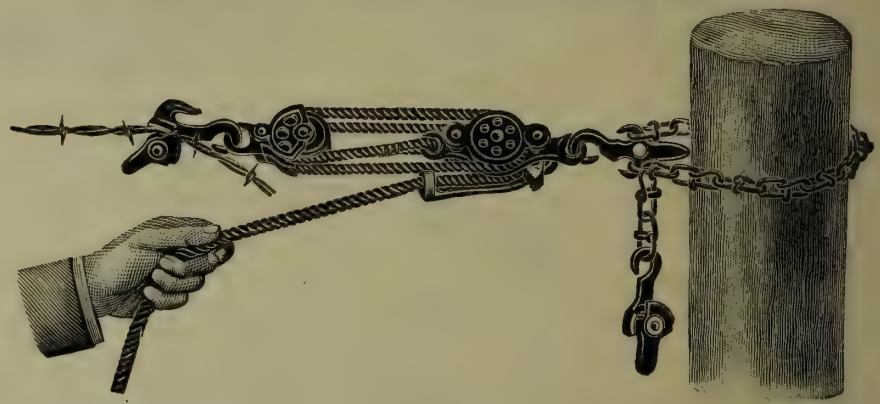
F. W. Lamplough & Co.
MONTREAL

THIS IS THE
OLD STAND-BY

None better on the market unless it is the Triumph.

If your Jobber cannot supply, write us for prices.

NO. 233.—WILCOX TACKLE-BLOCK WIRE STRETCHER



WILCOX MFG. CO. OF ONTARIO, Limited, London, Ont.

By Royal Warrant Sword Cutlers to HIS MAJESTY THE KING

By Royal Warrant Sword Cutlers to H.R.H. THE PRINCE OF WALES

WILKINSON SWORD CO., LTD.

Manufacturers Of

RAZORS

GOLD MEDAL AWARDED 1904

Patent Safety SHAVERS

Table and Pocket CUTLERY

SCISSORS

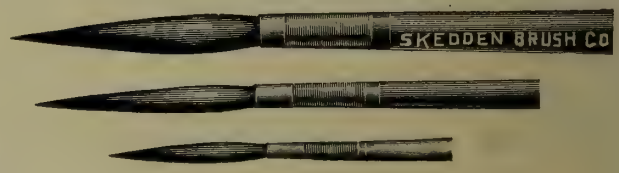
Made from Finest Sword Steel

General Electro Plate

Our Representative is now in Canada, and will be calling upon you.

FACTORIES: Oakley Works, ACTON, LONDON
Colonial Works, SHEFFIELD

Head Offices: 27 and 28 PALL MALL, S.W., **LONDON, England**



Skedden

is always pleased to quote prices to buyers of brushes.

SKEDDEN'S BRUSHES

are not ranked with the cheap grades one sees. They are brushes that carry in them a certificate of honest, thorough workmanship. They are worth their price,

Have You the Catalogue?

The Skedden Brush Co., Limited, Hamilton

Toronto Office—176 Victoria St. 'Phone Main 3398. O. VICKERY, Agent.

BUSINESS CHANGES

ONTARIO.

Muxworthy & Johnson, blacksmiths, London, have dissolved partnership.

P. McIntosh, blacksmith, MacLennan, has advertised his business for sale.

W. R. Singleton, tinsmith, etc., Carleton Place, has changed the style of the firm to W. R. Singleton & Son.

Florence & Winton, dealers in scrap-iron, Ottawa, have dissolved partnership. Bdsiness will be continued by A. Florence.

There was a bailiff's sale on April 15 of James Anton's interest in the assets of the Hamilton Wire, Tack and Specialty Co., Hamilton.

QUEBEC.

J. Trudeau, plumber, St. Lambert, has been burned out.

E. Robert & Cie., contractors, Montreal, have dissolved partnership.

Gagnon & Lacroix, plumbers, Montreal, have dissolved partnership.

The assets of G. Rowe, blacksmith, Franklin Centre, are to be sold Apr. 20.

A meeting of creditors of C. Arcand, carriage-maker, Portneuf, was held on the 18th of April.

MANITOBA AND N.W.T.

E. Watson, harness dealer, Gladstone, has sold to J. E. Rea.

H. B. Fryer, hardware merchant, MacGregor, has sold to R. A. Douglas.

Beaton Bros., blacksmiths, Wakopa, have advertised their business for sale.

The Harmer-Wedge Implement Co., Winnipeg, have been succeeded by Dow-Wedge Implement Co., Limited.

BRITISH COLUMBIA.

Archer & Hodder, hardware merchants, Kaslo, have dissolved partnership.

MEMORIAL WINDOWS.

The Luxfer Prism Co. have installed a memorial window in the Presbyterian Church at Beamsville in memory of the late Joseph E. Morrow. The Beamsville Express says the window is a beautiful piece of work, and greatly enhances the beauty of the church. Hardware dealers should be on the lookout for such jobs as this, as it is a line in which there should be good commissions.

THE OFFER STILL HOLDS.

Attention is called to the remarkable offer made by St. Arnaud Freres, of Montreal, in the special number of Hardware and Metal on March 25. They then offered approximately $1.20 worth of stove pipe elbows and polish for fifty per cent. discount. There is still time to take advantage of this offer, as it holds good until the last day of April, orders being acceptable if received May 1st.

OUR AGENTS

MESSRS. WAYLAND, WILLIAMS & DADSON

28 BOARD OF TRADE BUILDINGS, MONTREAL

are carrying a stock of our goods and will be pleased to have your inquiries for **Hex.** and **Square Cap Screws, Square Head Set Screws, Bright Washers,** and **Bright** and **finished Hex. Nuts.** The quality is right, and we can give you good deliveries

ACME LATHE & PRODUCTS CO., LTD.

MANCHESTER.

Clauss Brand TAILORS' Shears

Fully Warranted

These goods are the BEST and are EQUALLED only by such other goods as are manufactured by



Write for Trade Discounts.

CLAUSS SHEAR CO., 169 Spadina Ave., Toronto, Ont.

H. & R. SINGLE GUN AUTOMATIC AND NON-EJECTING

12, 16 and 20 Gauge
Steel and Twist Barrels

Superior in Design, Workmanship and Finish, and the most popular Gun on the Market.

Simplest "Take Down" Gun Made



HARRINGTON & RICHARDSON ARMS CO.
Also makers of H. & R. Revolvers.
Catalog on request. Worcester, Mass., U.S.A.

New Metals Only

New and old Brass, Copper, Lead, Zinc, etc., best prices.
If you have any advise me.

W. G. HARRIS

31 William St., TORONTO

Phone M. 1729 and 1730 - - - - - - - - Established 20 Years



A Good Line

Beaver Post-Hole Digger

Will please your customer. A pleased customer is an asset to any business.

No wood to rot, check or break. Special discounts to the trade.

Canada Foundry Company, Limited

HEAD OFFICE AND WORKS: TORONTO, ONT.

District Offices: Montreal, Halifax, Ottawa, Winnipeg, Calgary, Vancouver, Rossland.

STOVES AND TINWARE.

The Selling of Stoves.

"THE basic principle in merchandising is to get a profit on the goods sold," says R. A. Grim, of the Michigan Stove Company, Detroit. In order to do this a desire for the article sold must be created in the mind of the purchaser. This may be accomplished in several ways. The most common at present is for the maker of the article to advertise its merits, setting forth its utility, desirability or virtue. This assists the merchant to market it. With goods of this character he must impress the buyer with the name of the article and connect himself locally with the national advertising done by the manufacturer.

There are certain goods whose finish, form and intrinsic merit make them more desirable than similar articles of cheaper production whose construction costs less, but by the glittering descriptions set forth by catalogue houses are made to appear the equal of goods sold by the merchant. It requires tact and salesmanship on the part of the merchant to counteract this impression in the mind of the farmer.

This is the stumbling block not only of the merchant but of the traveling salesman himself who fails to impress the merchant with the many points of merit of the goods under consideration. If you are selling goods that have real merit impress it on your customer and imperceptibly it will grow on you that what you are saying is real truth, and the selling of such articles becomes a religion. Your indorsement comes with such a firm conviction of truth to the buyer that he is at once impressed with your sincerity and the sale is made. You can never make another man believe something of which you yourself are not firmly convinced.

Merchants often say to me, "I cannot sell such and such an article." I am always glad to hear a man thus express himself. It shows conscientiousness, which is the real basis of all character. Here is a man whose confidence is worth something, in whom the buying public will soon learn to trust, and lucky is the salesman who secures his business.

The one secret of merchandising is to make the other man want your goods. Pick up the catalogues of the houses that sell direct to the farmer and their graphic descriptions read like a chapter from "The Arabian Nights." They are trying to make the other fellow want their goods. The merchant and the traveler are drowning in the same stream. Let us each use the gifts that we are supposed to possess.

Is Coal to Be Eclipsed?

A NEW fuel successfully tested at Muncie, Ind., has been invented by Jacob Smith, a glass worker. It is said to possess more heat units per pound than either coal or wood. It can be manufactured and sold at a profit for half the cost of coal, and it does not smoke except when a strong draft is used. Its success as a fuel for domestic uses was determined some time ago, but not until recently, when it was used beneath an engine boiler, was its value for manufacturing demonstrated. The fuel is made largely from the refuse of pulp mills, of which there are a number about Muncie. Each mill turns out thousands of tons of refuse annually. The refuse, a combination of soda and lime, is mixed with crude oil, and the finished product resembles putty. It may be cut with a spade and thrown into a furnace or beneath a boiler. No kindling is necessary, for a match touched to it will light readily, the material burning with an intense heat. There are no clinkers, and the ashes remaining after the fire has burned down may be made into a new compound for which Mr. Smith has another use. A bushel basketful of the fuel beneath a 16-horse-power engine at a Muncie factory kept steam up for eight hours. It is manufactured as a plasterer makes his mortar. The United States patent office has called it the Smith fuel.

When you sell a stove sell it on its merits and do not deceive the customer. He will remember just what you say, and if the stove does not come up to your description in working quality or durability he will lose confidence in you. Remember that you will want his trade whenever he wants anything in your line, and that if you deceive him you are not likely to get it.



You can sell
SOLARINE
Only get it started in your town.
When people know its merits they buy readily.
Quality counts — **SOLARINE**
QUALITY brings business.
H. F. FALKINER,
60 George St., TORONTO
Ontario Distributor.

OAKEY'S The original and only Genuine Preparation for Cleaning Cutlery. 6d. and 1s. Canisters
'WELLINGTON'
KNIFE POLISH
JOHN OAKEY & SONS, LIMITED
MANUFACTURERS OF
Emery, Black Lead, Emery, Glass and Flint Cloths and Papers, etc.
Wellington Mills, London, England
Agent:
JOHN FORMAN, 644 Craig Street
MONTREAL.

STRONG DURABLE LIGHT



POROUS AND CHEAP

No. 1 Assortment
at $5.10 and No. 2 at $4.15. of
Flower Pots and Saucers
are specially adapted to the requirements of grocers and general stores.
Ready Crated for Rush Orders.
The FOSTER POTTERY CO.
HAMILTON. Limited

IDEAL
Woven Wire Fencing



MAKES MONEY FOR YOU

Your customer, the farmer, wants a fence that can be put up quickly and easily just when he wants it. Hand made fences cost too much when you figure the time it takes to build them, to say nothing of the hard work.

Why not sell "The Ideal," the best woven wire fence made? You can build up a permanent trade that will pay you as much as any line you are handling. Other hardware merchants are doing it. Why not you? The Ideal will give satisfaction to your customer and make him your friend.

Have you seen the Ideal? Let us send you a sample and catalogue showing why Ideal fence made from No. 9 hard steel wire throughout is the strongest and the best value.

Ask us about the Ideal all metal farm gate.

The McGregor-Banwell Fence Co., Limited,
WALKERVILLE, ONT.
Merrick, Anderson & Co., Winnipeg, Man.
Sole agents for Man. and N.W.T.

WORK AND PRICES RIGHT
GALVANIZING
ONT. WIND ENGINE & PUMP CO.
TORONTO, ONT. LIMITED

TRADE MARK
This design a guarantee of quality.
Manilla Paper
SMOOTH, TOUGH, BRIGHT, CLEAN
ALL SIZES AND WEIGHTS
Fibre Paper
THE TOUGHEST OF THE TOUGH
ALMOST WATERPROOF
SAMPLES AND PRICES GLADLY SENT
CANADA PAPER CO.
Toronto LIMITED Montreal

We will be glad to receive your orders for Searchlight Lanterns, Hinge and Lift Lanterns, Railway Lanterns and Lantern Burners.



This cut shows our **Cold Blast Lantern** with side lift. We also make the Cold Blast with bottom lift. Plain and japanned.

E. T. WRIGHT & CO. - HAMILTON, ONT.

BAR STEEL
FOR IMPORT
Single Reeled for Machinery
Double Reeled for Machinery
Mild Steel Machinery Bars
LOWEST PRICES
J. A. HENDERSON, Board of Trade, MONTREAL
Agent for T. W. & J. WALKER, Wolverhampton

They Cost No More
Then why under the sun should you keep on selling the common, inferior wood screne? Our
ALL-METAL WINDOW SCREENS
put the common kind in the back row. If they cost more, there would be some excuse for you.
C. M. CUTTS & CO., Sole Makers, Toronto Junction, Ont.



"PROVE IT"

That is what the customer says to you when you tell him the good qualities of a range. You would find it hard work with some of the fire-boxes on the market to-day.

If you show him an

Oxford Chancellor Range

you can prove its excellent, exclusive features. They will appeal to any purchaser.

Show your customer the large oven, the drop door that patent springs prevent from banging, show him the fire box that can be fitted to burn wood or coal—the fire back and front grate made in one extra heavy piece.

Show him the steel sheets of the body, which is closely riveted to an interlining of asbestos mill-board.

Show him all the points that make the Oxford Chancellor the best steel range on the market. He'll buy.

THE GURNEY FOUNDRY CO., LIMITED
TORONTO——WINNIPEG——VANCOUVER
—CORRESPONDENTS :—
THE GURNEY-MASSEY CO., LIMITED, MONTREAL, QUE.
THE GURNEY STANDARD METAL CO., LIMITED, CALGARY, ALTA.

BUILDING AND CONSTRUCTION

Fire Losses in 1904.

The fire loss in the United States and Canada reached the enormous sum of $253,364,000 during the year of 1904. and is the largest amount of any single year since the great fire in Chicago. This total loss, while it includes great Baltimore, Rochester and Toronto fires, still is $10,000,000 more than for the year previous. The construction of high buildings with large areas causes an enormous fire peril in the principal cities. In New York and Chicago there are many blocks the destruction of any one of which would entail a loss of from $10,000,000 to $25,000.000. These are conditions that urge architects to use their utmost influence with owners to build structures that shall combine the best modern methods in fire-resisting construction.

Cement for Road Building.

The manufacture of cement from furnace slag, for use in road building, is a great industry in Germany. It is produced by grinding and thoroughly mixing 85 per cent. granulated slag with 15 per cent. of lime hydrate. Slag is also largely employed by Portland cement manufacturers as a substitute for marl and limestone, and the claim is made that cement made with this addition is stronger than ordinary cement. Here is a hint for somebody to utilize a waste product and make a fortune.

Additions to Cement Plant.

The Lakefield Portland Cement Co. is putting up new buildings and making additions to their plant that will give them twice the output now going out. When the mill is complete it will have a daily capacity of nearly 1,000 barrels of cement. The Owen Sound Iron Works Co., which has devoted considerable attention to cement mill machinery in the last few years, has secured the contract for a complete cooling plant for the new kiln department. The equipment will include two hot clinker elevators, one 42 inch cooler, three coal hoppers and a belt elevator.

Building in Stratford.

Building permits have been issued in Stratford as follows since March 29: Brick residence for Miss E. Sholtz; four frame residences for J. M. Lillow; brick veneer residence for Thomas Harkness; brick veneer residence for Chas. Brogden; frame residence for D. Jacobs; two brick veneer residences for Wm. Elligson; brick veneer residence for R. Offord; brick residence for Arthur Brown; frame residence for A. J. McPherson; brick residence for D. B. Burritt; six brick and four frame residences for the Stratford Improvement Co.; brick residence for Mrs. Elizabeth Murray; brick residence for Mrs. Jane Bell; frame residence for Peter Bradshaw; frame residence for D. J. McLeod; brick veneer residence, W. Hamick; frame residence for Mrs. Nellie Smith; brick veneer for F. Dalgleisch.

To Enlarge Foundry.

Burrow Stewart & Milne, Hamilton, have found it necessary to enlarge their factory, and work on the excavation for the foundations of the additions has commenced. The four-storey warehouse building on Hughson street will be extended to the limits of the company's property, and the molding shop will be enlarged. The additions will cost about $15,000.

Building Notes.

The Children's Aid Society may erect a new shelter in Toronto.

The Mickle-Dyment Co., Brantford, are to enlarge their factory.

The Bank of Commerce is erecting a new branch at Port Arthur.

A new fire hall is to be erected in Montreal at a cost of $25,000.

F. J. Lyne will build a brick house on Elgin street, Hamilton, to cost $1,500.

Burrows, Stewart & Milne's new addition to their foundry in Hamilton will cost $15,000.

J. McKay & Co., Bowmanville, are rebuilding their large mill destroyed by fire last Fall.

Andrew Gow will build a brick dwelling on King William street, Hamilton, to cost $1,500.

An addition of 60 x 40 feet will be added to the plant of the St. Thomas Brass Co., St. Thomas, Ont.

The Mark Fisher & Sons Co., Montreal, will erect a warehouse in Toronto 115 x 35 feet, to cost $30,000.

B. M. and T. Jenkins, furniture dealers, Montreal, are to erect a four-storey building on Phillips square.

A permit has been granted to A. W. Peene, Hamilton, for a concrete block dwelling on Minto avenue, to cost $1,200.

The Lindsay building, a seven-storey office structure, to be erected on St. Catherine street, Montreal, will cost $100,000.

Clare Bros & Co., of Preston, have purchased a five-acre site in Winnipeg, upon which they propose erecting a large foundry.

The Ogilvie Milling Co. are to build an addition to their mill at Montreal. When completed the capacity will be 5,000 barrels per day, the largest in the British Empire.

J. D. Sowerby & Co., of Oak Bay Mills (P.Q.) are rebuilding their saw mill, which was burned last year. They have ordered a 150-horse-power engine and a heavy rotary saw mill from the Robb Engineering Co.

Building permits have been issued in London to J. C. Worill, for a brick veneer residence on Victoria street; and W. T. Hamilton, for a 1 1-2 storey brick veneer double residence on Alexander street, West London.

The plans for the new Sherbrooke street flats, which are to be erected in Montreal, indicate that the new structure is to be up-to-date in every way. It will cost in the neighborhood of $100,000, and will be six stories high.

The Vancouver City Council has been asked to guarantee 2 per cent. bonds to the extent of $800,000 of the Vancouver Shipbuilding Co., which proposes to erect a drydock. The Government has given a subsidy of 3 per cent. on an expenditure up to a million dollars for twenty years.

It is doubtful if building has ever shown the activitv that now prevails all over the United States. During March, permits were taken out in 28 of the principal cities of the country for construction of 12,505 buildings, involving a total cost of $55,160,744, an increase of 68 per cent. over the corresponding month a year ago.

"DOMINION BRAND"
TARRED FELT
(THE OLD RELIABLE QUICK SELLER)

ROOFING PITCH
COAL - TAR

WHEN YOUR TRADE DEMANDS **THE BEST** ROOFING MATERIALS

CONSULT THE WELL-KNOWN MANUFACTURERS

LOCKERBY & McCOMB, 65 Shannon St., Montreal

Steel Roofing and Siding, $2.00 per 100 Sq. Ft.

Painted red on both sides. Most durable and economical covering for **Roofing or Siding, for Residences, Houses, Barns, Elevators, Stores, Churches, Poultry Houses, Cribs,** etc. Easier to lay and will last longer than any other covering. Cheaper than wood shingles or slate. No experience necessary. A hammer and snips are the only tools required. It is semi-hardened high grade steel. **Brick or Stone Siding at $2.00 per 100 Square Feet. Pedlar's Patent Steel Shingles at $2.50 per 100 Square Feet.** Also **Corrugated Iron, Painted or Galvanized,** in sheets 96 inches long. **Beaded and Embossed Ceilings. V Crimped Roofing.** 2000 designs of Roofing, Siding and Ceilings in all grades. Thousands of buildings through the Dominion covered with our Sheet Metal Goods making them

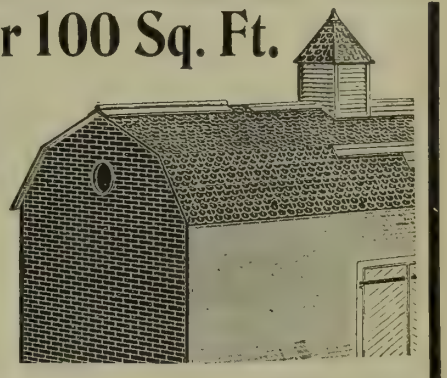
FIRE, WATER AND LIGHTNING PROOF.

Send in your order for as many squares (10 x 10 feet) as you require to cover your new or old building. The very best roofing for this climate. We can suppy **Eave Trough, all sizes, Corrugated or Plain Round, Conductor Pipes, Shoes, Elbows, Spikes, Tubes.**

All goods shipped day after order is received. We are the largest concern of the kind under the British Flag. Established 1861. Capital Invested $150,000.00.

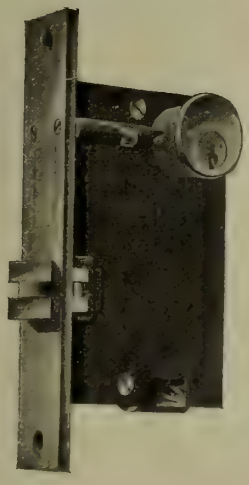
PEDLAR PEOPLE, OSHAWA, ONTARIO, CANADA.

Eastern Warehouse—767 Craig St., Montreal, Quebec.



GURNEY CYLINDER LOCKS

Why should any hardware dealer urge the sale of a high-priced imported lock when he can offer a Canadian-made lock of equal quality—not to say better—at a decidedly lower price?



OUR CATALOGUE

is a real necessity to every dealer. It shows an immense variety of builders' hardware and illustrates the many lines of our

GURNEY CYLINDER LOCKS

It is mailed cheerfully to every inquirer.

THE GURNEY, TILDEN CO., Limited

HAMILTON

BRANCHES:
Winnipeg—Tilden, Gurney & Co., Limited
Vancouver—The Gurney, Tilden Co., Limited

AGENCIES:
Montreal—Nicoll & Barr, 35 St. Peter St.
St. John—Nicoll & Barr, 38 Dock St.

Building Permits.

TORONTO

H. M. Flock, residence, 216 Rusholme road, $3,200.

Ernest Wills, office, No. 836 College street, $2,500.

W. J. McLean, dwelling, 181 Crawford street, $2,500.

H. M. Booth, dwelling, 80 and 82 Salem avenue, $2,400.

W. Dawson, dwellings, 14 and 16 Pearson avenue, $2,400.

Wm. H. Harvey, dwelling, also alter old house, No. 40 Hayden street, $3,000.

W. J. Copp, dwelling, Degrassi street, on south side Simpson avenue, $1,400.

John Dunlop, dwellings, near Hallam street, on west side Preston avenue, $4,800.

Mrs. J. J. Hubbard, dwellings, near Shaw street, on south side Hallam street, $1,500.

Henry Jenkins, dwelling, near Brock avenue, on south side Muir avenue, $1,200.

Fred W. Newton, dwelling, near Boustead avenue, on Alhambra avenue, $1,500.

W. H. Martin, dwelling, near Logan avenue, on west side Smith street, $3,000.

M. Peterson, show and storeroom at corner of Yonge and Gerrard streets, $1,000.

H. & W. Kidd, dwellings, near Dupont street, on west side Albany avenue, $3,300.

Thurston & Slack, dwellings, near College street, on east side Shaw street, $3,600.

Chas. Mould & Co., dwelling, corner of Dupont street and Albany avenue, $2,500.

John C. Green & Co., warehouse, near York street, on Wellington street west, $45,000.

A. W. Adams, dwellings, near West Lodge avenue, on north side Marion street, $3,000.

Wesley Bulmer, dwelling, near Hepbourne street, on east side Concord avenue, $3,600.

Richard Anderson, dwellings, near Avenue road, on north side Pears avenue, $2,500.

W. E. Watson & Co., dwellings, near Dupont street, on west side Spadina road, $8,000.

W. E. Watson & Co., dwellings, near Dupont street, on east side Walmer road, $8,000.

Herbert W. Winters, dwelling, near Yonge street, on north side Walker avenue, $4,000.

James Donovan, dwellings, near Bloor street, on east side Lansdowne avenue, $8,000.

Charles Taylor, residence, near College street, on east side Montrose avenue, $1,000.

Margaret M. Hoops and Jas. Hoops, dwellings, near Cinder street, on west side Crawford street, $12,000.

F. A. Jacobs, store and dwelling, concrete foundation, southeast corner of Gerrard street and Broadview avenue, $3,000.

The Hanover Portland Cement Co., Limited
HANOVER, ONTARIO
Manufacturers of the celebrated **"Saugeen Brand"** OF PORTLAND CEMENT.
Prices on application.

"THE EMLYN" SAW BENCH
Made in 6 sizes. Best value obtainable. Specially designed for export With or without "Emlyn" Patent Guard. Sole maker—
CHARLES D. PHILLIPS,
Cables— "Machinery," Newport. Emlyn Engineering Works NEWPORT, MON., ENGLAND

NEWMAN'S PATENT INVINCIBLE FLOOR SPRINGS
Combine all the qualities desirable in a Door Closer. They work silently and effectually, and never get out of order. In use in many of the public buildings throughout Great Britain and the Colonies.
MADE SOLELY BY
W. NEWMAN & SONS, Birmingham.

Are you interested in any of the lines that are advertised?
A Post Card will bring you price list and full information.
Don't forget to mention Hardware and Metal.

A PERMANENT and Handsome Roof.

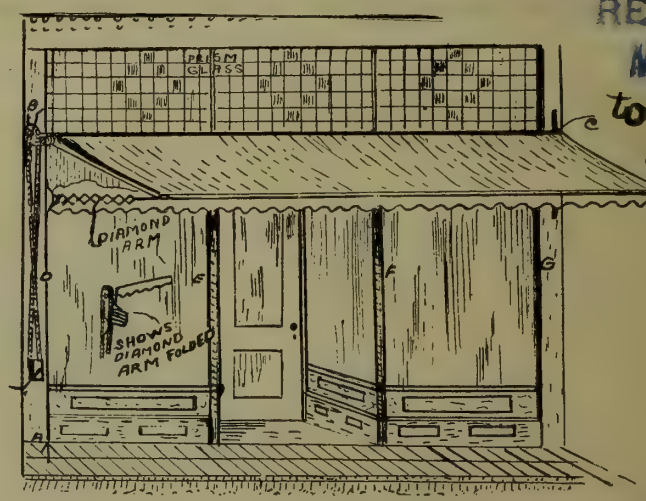


Arrow Brand Asphalt Ready Roofing
Will bring you profitable trade and satisfied customers. Comes in rolls ready to lay, all ready covered with gravel. Requires no experience to lay, and lasts for years without further attention.
A. C. JENKING & CO, Sole Agents,
Room 215 Coristine Building, - MONTREAL.
Sole agents being appointed in each district. Write to-day.

STANLEY RULE & LEVEL CO.,
NEW BRITAIN, CONN., U.S.A.

IMPROVED CARPENTERS' TOOLS

SOLD BY ALL HARDWARE DEALERS.



RETURNED MAY 16 1906 to owner cut Book 50 Page 53. W. & E.

For Prism Glass Store Fronts

the Diamond arm as shown in the accompanying cut is the best to use. There is no more trouble with this arm than when the higher altitude is necessary and the regular straight arm is used.

This arrangement entirely does away with the trouble of raising and lowering as in the old-style slide of arm; and it is possible to use it where no other kind can be used.

FOR A QUOTATION SEND MEASUREMENTS.

WM. BARTLETT & SON, 16 Adelaide St. West, TORONTO.

Toronto Rubber Roofing

WEATHER-PROOF,
ROT-PROOF,
FIRE-PROOF.

Send for Samples

A VERY SALABLE ARTICLE

Best Prices to Trade

All material complete in each Roll.

LUXFER PRISM CO., LTD., 100 KING ST. W., TORONTO.



WE ARE PRODUCING THE
LATEST AND BEST DESIGNS IN

Refrigerators, Screen Doors and Windows

Send for our catalogue which tells all about them.
IT WILL PAY YOU.

THE **SANDERSON-HAROLD CO.,**
PARIS, - ONT. Limited



Perfection Window Screen.

MAXIMUM LIGHT GLASS

"Complete Illumination with Daylight"

is quite a different effect from the results obtained by polished mirrors and various reflecting surfaces. The MAXIMUM LIGHT GLASS produces nearly uniform diffusion of WHITE LIGHT in the room. All the daylight is gathered and utilized. There is a complete absence of glare, an elimination of shadow, and all streakiness of effect is avoided.

The price of MAXIMUM LIGHT GLASS isnot much more than that of ordinary prismatic or corrugated glass.

Have you had a Sample, or our Booklet?

SOLE CANADIAN AGENTS:

THE HOBBS MANUFACTURING CO., Limited, LONDON, ONT.

Class Importers and Manufacturers. Sole Canadian Agents.

STREET PAVING and SIDEWALKS a SPECIALTY

SILICA BARYTIC STONE CO.

OF ONTARIO Limited

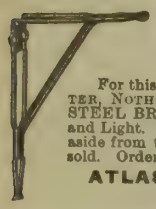
Head Office:

Ingersoll, Ontario.

Water Proof Floors for Malt Houses, Breweries, Slaughter Houses Cheese Factories, Cellar, Stable Floors, etc

Walter Mills, General Manager

Ask for quotations for Septic Tanks.



Will Hold Up a Shelf!

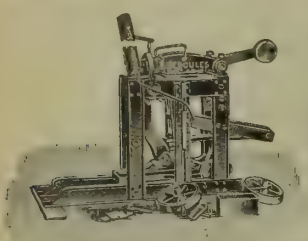
That's what a shelf bracket is for.

For this purpose there can be NOTHING BETTER, NOTHING CHEAPER than the BRADLEY STEEL BRACKET. It is well Japanned, Strong and Light. The saving in freight is a good profit, aside from the lower price at which the goods are sold. Order direct or through your jobber.

ATLAS MFG. CO.,

New Haven, Conn., U.S.A

Bricks! Bricks! Bricks!



If you know of anyone intending to make bricks, induce him to use one of our

Hercules Handpower Press

IT WILL PAY YOU

No previous experience needed.

BOSSON BROS., Engineers

P. O. Box 198 BRUSSELS (Belgium)

Cable Address "FORWARD BRUSSELS."

Indents through European merchants.

...FULL STOCK...

Salt Glazed Vitrified



Double Strength Culvert Pipe a Specialty.

THE CANADIAN SEWER PIPE CO.

HAMILTON, ONT. TORONTO, ONT.

ST. JOHNS, QUE.

$2 FOR THIS SMALL SUM THE $2

MANUFACTURER and SUPPLY MERCHANT

may keep posted on new openings for trade.

The CANADIAN CONTRACT RECORD

reports weekly all projected building and other construction works throughout Canada as well as new business enterprises.

Send your name and address with $2 for a year's subscription to

Canadian Contract Record

$2 Toronto, Montreal and Winnipeg $2

INDUSTRIAL GOSSIP

HARDWARE AND METAL would be pleased to receive from any authoritative source industrial news of any sort, the formation or incorporation of companies, establishment or enlargement of mills, factories, foundries or other works, railway or mining news. All correspondence will be treated as confidential when desired.

NIAGARA FALLS power is to be further developed by a new company known as the Niagara-Welland Power Co., with an authorized capital of $5,000,000, and unlimited bonding privileges. The shareholders are principally well-known New York business men, the majority of whom are Canadians by birth. The purpose of the company is to utilize the waters of the Niagara and Welland Rivers, and bring them by means of a canal, about seven miles in length, to the escarpment just east of St. Catharines, where a fall of 210 feet is to be had, and the water will then escape by an almost natural raceway to Lake Ontario. Below the escarpment the company will also be able to use the waste water at the other two power stations, where falls of 40 and 60 feet are to be had. It is intended to develop 100,000 horse-power at the outset and to instal hydraulic and electrical machinery for 50,000 horse-power capacity. The ultimate capacity of the power plant, however, will depend upon the demand, as the amount of power available is practically unlimited. The Niagara River will be tapped four miles above the falls. Power will be sold to cities and towns operating municipal enterprises.

Winnipeg is placing the machinery for its new asphalt plant.

The Canadian Steel Goods Co., of Toronto, are negotiating for a site in London.

A saw mill capable of producing 3,000,000 shingles yearly, is being erected by James McNair, at Arthurette, N.B.

The Cleveland Roofing Co. have announced their intention of seeking a Canadian location for a branch factory.

The Composite Brick Co. have decided to settle in Regina, and buildings 150x30 feet are already in course of erection there.

Preparations are being made for the construction of a new C.P.R. dock immediately fronting No. 2 shed, Owen Sound.

The Cyclone Wire Fence Co., and the Woodstock Wire Fence Co., the latter backed by Ann Arbor, Mich., men, have secured sites in Woodstock.

The Niagara Construction Co., Niagara Falls South, will receive tenders for about ten miles of wire fencing, including steel gates and cedar posts.

Construction of the pulp mill to be established at Swanson Bay, B.C., by the Oriental Power and Pulp Co., will commence in May. The mill will have a capacity of 100 tons of paper a day.

The Cochrane ranch, composed of 66,000 acres of land in Southern Alberta, has been sold by H. A. Mullins, general manager, to American capitalists, who will colonize it. The price is $400,000.

The Economic Construction Co., Toronto, is endeavoring to secure a franchise from Sydney, N.S., for the erection of a gas plant to cost about $60,000.

The Pneumatic Horse Collar Co., is being organized at Brantford. The company will manufacture a pneumatic horse collar of a patented design, which is claimed to be a great improvement on all present collars.

The Rideout-Gilbert Co., Limited, of Rat Portage, have taken over the business of the Gibson-McLaughlin Carpet Co., Winnipeg, and will operate a house furnishings department store in Winnipeg, as well as establish a mattress factory at Rat Portage.

The annual meeting of the Winnipeg Land and Mortgage Co. has been held. A cash dividend of $8 a share was declared, and a bonus in stock of $33.33 also. The capital of the company is $100,000, of which $60,000 is subscribed and $38,000 paid up.

A very large number of artisans and laborers are working on the main line of the C.N.R. on its extension to Edmonton, N.W.T., and the company confidently expect to run trains into the northern town this Summer. There are still 300 miles of steel to be laid before the town is reached, and two bridges to be constructed. The bridges are to be built at Battleford and Fort Saskatchewan.

The Canada Tin Plate and Sheet Steel Co.'s new plant at Morrisburg is to be erected at once. Peacock Bros., Montreal, have completed their work on the plans, and J. Wesley Allison, who has the contract for equipping the plant, claims that it will be the most modern tinplate and sheet steel plant in the world. Being operated entirely by electric power will alone make the Morrisburg mills unique. The mills will be built close to the main line of the Grand Trunk, from which railway sidings will run through the centre of the principal buildings, which will stand in a double row parallel to the main line.

This is to be a very active season in C.P.R. circles. The remarkable expansion of the West has not by any means been overlooked by railway officials, as the announcements of the sums to be expended by the C.P.R. will show. Calgary is to benefit largely in railway improvements. One of the most important works at Sydney, N.S., seems now to Calgary and the shops there will be largely added to in each department. This will mean a large increase to the number of men already employed. The entire division will receive attention, and from Swift Current to Laggan, with the intervening branches, the enormous sum of $1,500,000 is to be laid out. There will be 300 miles of heavy steel laid and the roadbed ballasted and brought up to standard.

It is again reported that a tremendous combination of iron and steel manufacturing companies of Great Britain, Germany, France and other European countries is being organized, which will be antagonistic to the United States Steel Corporation. Practically the entire world's output of steel and iron products will be manufactured by the two rival

combinations. The steel interests represented by Charles M. Schwab, it is said, are to be allied with the new European combination. Fully a year ago it was reported from London that negotiations were in progress there, having for their objects the reservation of home markets for steel products, the prevention of "dumping" and the fixing of uniform export prices. The countries represented in the conferences, which originated with the German syndicate, the Deutscher Stahlwerks Verband, were Great Britain, Germany, the United States, Austria and Belgium, and the French manufacturers also were said to be in sympathy with the project.

COMPANIES INCORPORATED.

Buster Brown Gas and Oil Co., Limited, Windsor, share capital $500,000, purpose to produce gas and oil. The directors are: G. S. Brown, I. E. Brown, J. L. Wentz, E. U. Leh, all of Detroit, and J. W. Hanna, of Windsor.

Dominion Motor Car Co., Limited, Montreal, share capital $20,000, purpose to manufacture motor boats and vehicles. The directors are: H. S. Bryant, F. B. Stockwell, F. M. Seddal, W. F. J. Hart, and H. N. Chauvin, all of Montreal.

Ottawa Stone Co., Ottawa, share capital $20,000, purpose to manufacture cement and other building materials. The directors are: H. Robillard, B. Robillard, T. G. Brigham, W. E. Hayes, jr., and P. J. Delaney, all of Ottawa.

Gananoque Bolt Co., Limited, Gananoque, share capital $125,000, purpose to manufacture bolts, nuts and railway hardware. The directors are: W. T. Sampson, E. L. Atkinson, C. A. Atkinson, P. Sampson, and D. Bain, all of Gananoque, and F. B. Cowan, of Franklin, Penn.

Lake Huron Copper Mining Co., Limited, Thessalon, share capital $500,000, purpose to develop mining property. The directors are: J. A. McEachern, of Thessalon, B. B. Danziger, J. Danziger, S. C. Yeomans aad C. T. Brown, all of Chicago.

Universal Motors Mfgs., Limited, Montreal, share capital $500,000, purpose to take over the Universal Spring Motor Co., of Toronto, and carry on their business. The directors are: H. F. Leonard, jr., W. G. Morden, J. Gelinas, and A. Padeau, all of Montreal, and H. R. Harmer, of Toronto.

Northern Sulphite Mills of Canada, Limited, Sturgeon Falls, share capital $500,000, purpose to manufacture charcoal and charcoal wood alcohol and bi-products of wood. The directors are: John Craig, London, England, G. C. Loveys, J. M. Ewing, F. Ford, and B. Osler, all of Toronto.

Lauire Engine Co., Limited, Montreal, share capital $250,000, purpose to carry on the business of the Lauire Engine Co., and manufacture steam and electrical machinery. The directors are: D. Yuile, C. E. L. Portius, A. E. Madley, J. M. Mackie, all of Montreal, and A. E. Woodworth, of Ste. Lamberte, Quebec.

Gas and Oil Co., of Springvale, Limited, Springvale, share capital $10,000, purpose to develop gas and electric power for heating and lighting. The directors are: S. W. Winger, A. S. Benn, S. G. Holbrooke, W. Crozier, W. Duxbury, S. A. Gray, and R. E. Bowman, all of the Township of Walpole, Haldimand County.

Pedlar Talks

"KEEPING EVERLASTINGLY AT IT BRINGS SUCCESS"

No. 1. OSHAWA, ONT. APRIL 22, 1905.

10,000 Sq. Yards Daily

"A HIT dog howls." Perhaps you have noticed that our "Perfect" Metal Lath, which has been offered at 10 cents a sq. yard, has provoked attack. The man who has his money invested in antiquated patents and machinery, whose output is but a fraction of what the most modern patents and machinery make possible, can't begin to manufacture the quantity, nor at the price, we can, who own the very latest productions in the metal lath world.

600 sq. yards daily, or thereabouts, is the capacity of old-time machinery, whereas our machine turns out 10,000 sq. yards daily.

We could well afford to cut the price in two—and still make a tidy profit. "Perfect" Metal Lath sells to the builder at 10c. a sq. yard, with a discount to the trade. Other forms of Metal Lath sell at 20c.—and are inferior to ours at that.

We write these facts without passion—it is due the trade to know them.

The Hardware Dealer

Our great object in these "Talks" is to arouse the hardware dealer to an appreciation of his place in the changing conditions in the building world. With the rapid and heavy increase in the use of metal in its many forms, to replace wood, which is becoming scarce and high priced, the hardware dealer is acquiring a new relation to building enterprises.

Instead of supplying only nails and locks, and other light hardware, he can and will become the man to supply much else in the metal line.

Take Metal Lath for example. Wood lath is disappearing. Metal Lath is replacing it. The hardware dealer is the natural seller of Metal Lath. In Metal Laths our "Perfect" Lath has the call. Price for one thing; superiority over all other forms for another. Have you had a sample? THE PEDLAR PEOPLE, Oshawa, Ont.; Eastern Warehouse, 767 Craig street, Montreal.

Neglect of Nothing

And Studying Everything which tends towards Perfection has placed our goods among the Leaders Everywhere.

Ready Roofing, Sheathing and Black Diamond Tarred Felts, Building Papers, Fibre and Manilla Wrappings, etc.

Ask for our quotations——they will interest you.

FELT FACTORY
Harbour and Logan Sts., MONTREAL

PAPER MILLS
JOLIETTE, QUE.

ALEX. McARTHUR & CO., LIMITED
82 McGILL STREET, - MONTREAL

CURRENT MARKET QUOTATIONS.

April 22, 1905.

These prices are for such qualities and quantities as are usually ordered by retail dealers on the usual terms of credit, the lowest figures being for larger quantities and prompt pay. Large cash buyers can frequently make purchases at better prices. The Editor is anxious to be informed at once of any apparent errors in this list, as the desire is to make it perfectly accurate.

METALS.

TIN.

Lamb and Flag and Straits—	
56 and 28-lb. ingots, 100 lb.	$32 00 $33 00

TINPLATES.

Charcoal Plates—Bright.

	Per box.
M.L.S., equal to Bradley—	
I C, usual sizes	$6 50
I X "	8 00
I X X "	9 50
Famous, equal to Bradley—	
I C	6 50
I X	8 00
I X X	9 50
Raven and Vulture Grades—	
I C, usual sizes	4 25
I X "	5 00
I X X "	5 75
I X X X "	6 50

"Dominion Crown Best"—Double Coated, Tissued.

	Per box.
I C	5 50
I X	6 50
I X X	7 50
"Allaway's Best"—Standard Quality.	
I C	4 50
I X	5 50
X	6 50

Coke Plates—Bright.

Bessemer Steel—	
I.C., usual size, 14x20	3 50
I.C., special sizes, base	3 75
20x28	7 50

Charcoal Plates—Terne

Dean or J. G. Grade—	
I.C., 20x28, 112 sheets	7 50
IX., Terne Tin	10 50

Charcoal Tin Roller Plates.

Cookley Grade—	
X X, 14x56, 50 sheet bxs. / " 14x60, " / " 14x65, "	7 00

Tinned Sheets.

72x30 up to 24 gauge	7 25	7 50
" " 26 "	7 75	8 00

IRON AND STEEL.

	Montreal.	Toronto.
Common bar, per 100 lb.	1 80	1 80
Forged iron "		2 05
Refined "	2 20	2 05
Horseshoe iron "	2 02½	
Hoop steel, 1½ to 3 in. base		
Sleigh shoe steel "	1 97½	
Tire steel	2 07½	
T. Firth & Sons, tool steel—		
Speedicut		0 60
Annealed speedicut		0 65
Self-hardening		0 36
Best tool steel		0 12
Warranted		0 09
Best sheet steel		0 12
B. K. Morton & Co.—		
"Alpha" high speed		0 65
" annealed		0 70
"M" Self-hardening		0 50
"J" quality		0 18
"I" "		0 14
"BC" "		0 09
Jonas & Colver's tool steel	0 10	0 20
" "Novo"		0 65
" " annealed		0 70
Chas. Leonard	0 08	0 09
Crucible Steel Co.—		
" Rex high speed steel	0 65	0 75
" Self-hardening	0 45	0 50
Crucible Special		0 17
" Silver steel		0 13
" Black Diamond	0 10	0 11
Sanderson's Crucible steel	0 08	0 09
" Superior "	0 12	0 13

BABBIT METAL.

Syracuse Smelting Works:

Aluminum, genuine	0 45
Government, "	0 44
Tough, "	0 40
Hard, "	0 40
Dynamo	0 30
Special	0 25
Maganese	0 18
Car Box	0 17
Extra	0 13
No. 1	0 10
No. 2	0 07
No. 3	0 05½

Large orders subject to discounts.

The Canada Metal Co.:

Imperial, genuine	0 40
Metallic	0 30
Hercules	0 20
Star	0 15
No. 1	0 12
No. 2	0 10
No. 3	0 06
No. 4	0 05

BLACK SHEETS.

	Montreal.	Toronto
10 gauge	2 30	2 30
12 and 14 gauge	2 25	2 35
17 "	2 20	2 40
22 to 24 gauge	2 05	2 50
26 "	2 10	2 65
28 "	2 15	2 70

COPPER WIRE.

Discount, 50 per cent.

CANADA PLATES.

Ordinary	2 50
All bright	3 75
Galvanized Canada Plates—	
J. C. M. 3 Crowns	
16 x 21 x 60	3 33
18 x 24 x 52	3 33
18 x 24 x 60	3 56

	Ordinary.	Dom. Crown.
18x24x52	4 25	4 35
" 60	4 50	4 60
20x28x80	8 50	8 70
" 94	9 00	9 20

GALVANIZED SHEETS.

	Fleur-de-Lis.	Gordon Crown.
16 to 20 gauge	3 40	
22 to 24 gauge	3 50	3 50
26 "	3 75	3 75
28 "	4 00	4 15

	Comet Bell.	Queen's Head
16 to 20 gauge	3 40	
22 to 24 gauge	3 45	3 65
26 "	3 70	3 90
28 "	3 95	4 15

American brands, $3.90 for 10¾ oz.
Less than case lots 10 to 15c. extra.

CHAIN.

Proof coil, 3-16 in., per 100 lb.		7 00	10 00
"	¼ "		5 60
"	5-16 "		4 45
"	⅜ "		3 85
"	7-16 "		3 70
"	½ "		3 55
"	9-16 "		3 45
"	⅝ "		3 35
"	¾ "		3 25

Halter, kennel and post chains, 40 to 40 and 5 per cent.

Cow ties	40 p.c.
Tie out chains	65 p.c.
Stall fixtures	35 p.c.
Trace chain	45 p.c.
Jack chain, iron, single and double, discount 35 p.c.	[count 40 p.c.
Jack chain, brass, single and double, dis-	

COPPER.

	Ingot.	Per 100 lb.
Casting, car lots	16 25	16 50

Bars.

Cut lengths, round, ½ to ⅞ in.	21 00	23 00
" round and square,		
Cut 1 to 2 inches	21 00	23 00

Sheet.

Plain, 16 oz., 14x48 and 14x60	21 00
Plain, 14 oz.	22 00
Tinned copper sheet	24 00
Planished	32 00

Braziers' (in sheets).

4x6 ft., 25 to 30 lb. each, per lb.	0 22
" 35 to 45 " "	0 21
" 50-lb. and above "	0 20

BOILER AND T.K. PITTS.

Plain tinned, Spun } 41½ per cent. off list.

BRASS.

Rod and Sheet, 14 to 30 gauge, 10 per cent.	
Sheets, hard-rolled, 2x4	0 23
Tubing, base, per lb.	0 23½

ZINC SPELTER.

Foreign, per 100 lb	7 00	
Domestic " "	6 75	7 00

ZINC SHEET.

5-cwt. casks		7 00
Part casks		7 25

LEAD.

Imported Pig, per 100 lb.	3 50	3 75
Bar, "		4 80
Sheets, 2½ lb. sq. ft., by roll		0 06½
Sheets, 3 to 6 lb. "		0 06

NOTE.—Cut sheets ½c. per lb., extra. Pipe, by the roll, usual weights per yard, lists at 7c. per lb. and 35 p.c dis. f.o.b. Toronto.

NOTE.—Cut lengths, net price, waste pipe 8-ft. lengths, lists at 8c.

ANTIMONY.

Cookson's per lb.	0 09½

SHOT.

Common, $6.50 per 100 lb.; chilled, $7.00 per 100 lb.; buck, seal and ball, $7.50. Discount, 15 p.c. Prices are f.o.b. Toronto, Hamilton, Montreal, St. John and Halifax. Terms, 2 p.c. for cash in thirty days.

PLUMBING GOODS.

BATH TUBS.

Zinc	6 00
Copper, discount 20 per cent. off revised list.	

BATHS.

Standard Ideal Enameled.

5½-ft.	2½	in.	rolled rim,	1st	quality	21 25
5½	"	"	"	2nd	"	17 25
5½	3	"	"	1st	"	23 60
5½	"	"	"	2nd	"	19 00
5	2½	"	"	1st	"	18 40
5	"	"	"	2nd	"	15 80
5	3	"	"	1st	"	20 75
5	"	"	"	2nd	"	17 25
Plate 116 D, lavatories				1st	quality	8 90
" 116 D,		"		2nd	"	7 50
" 118 D,		"		1st	"	5 70
" 118 D,		"		2nd	"	4 80
" 120 D,		"		1st	"	5 60
" 120 D,		"		2nd	"	4 70
" 122 D,		"		1st	"	5 40
" 122 D,		"		2nd	"	4 50
Sinks 18 x 30 in flat rim, A					quality	2 75
" " " "				B	"	2 50

IRON PIPE.

Black pipe—	Per 100 feet.
¼ inch	2 75
⅜ "	2 04
½ "	2 06
¾ "	2 30
¾ "	2 88
1 "	4 12
1¼ "	5 62
1½ "	6 75
2 "	9 00

Galvanized pipe—	
¼ inch	2 86
⅜ "	2 89
½ "	3 14
¾ "	4 02
1 "	5 77
1¼ "	7 88
1½ "	9 45
2 "	12 60

Malleable Fittings—Canadian discount 35 per cent. American discount 20 to 25 per cent.

Cast Iron Fittings—Standard bushings 50 and 10 and 10 per cent.; headers, 60; flanged unions and lipped, 60 and 5; malleable bushings, 65; nipples, up to 6 in., 75.

PLUMBERS' BRASS GOODS.

Standard Compression work, dis. 50 p.c.
Cushion work, discount 50 per cent.
Fuller work, discount 65 per cent.
6 dozen lots and over of the above, extra discount 10 per cent.
Lever handle Stops and Waste, discount 55 per cent. With in lots of 2 dozen and over an extra discount of 10 per cent.
J.M.T. Globe, Angle and Check Valves, discount 55 per cent.
Standard Globe, Angle and Check Valves, discount 65 per cent.
Kerr's special standard globes and angles, discount 55 per cent.
Kerr's Jenkin disc, copper-alloy disc and heavy standard valves, discount 55 percent.
Kerr's standard brass checks, discount 55 p.c.
Kerr's standard brass disc steam radiator valves, discount 65 per cent.
Kerr's Jenkin disc, copper-alloy disc radiator valves, discount 65 per cent.
Kerr's quick-opening hot-water radiator valves, discount 65 per cent.
Weber's (Kerr) patent straightway gate valves, brass, discount 50 per cent.
Weber's (Kerr) patent straightway gate valves, I.B.B.M., discount 60 and 10 per cent.
J. M. T. Radiator Valves discount 55 per cent.
Standard Radiator Valves, discount 65 per cent.
Patent Quick-Opening Valves, discount 70 and 10 per cent.

No. 1 compression bath cock	net	1 75
No. 4 " "	"	1 90
No .7 Fuller's	"	2 20
No. 4½, "	"	2 35

Patent Compression Cushion, basin cock, hot and cold, per doz., $31; 5 and 10 per cent. discount.
Patent Compression Cushion, bath cock, No. 2208 2 25
Square head brass cocks, discount 55 per cent
" " iron " " 60 "
Thompson Smoke-test Machine $25.00

RANGE BOILERS.

Copper, 30 gallon	22 00
" 35 "	24 00
" 40 "	28 00

Discount off copper boilers 15 per cent.

GALVANIZED IRON RANGE BOILERS.

Capacity. Gals.	Standard.	Extra heavy
12	4.50	6.50
18	4.75	6.75
24	4.75	6.75
30	5.00	7.50
35	6.00	8.50
40	7.00	9.50
52	11.00	14.00
56	18.00	20.00
82	21.00	24.00
100	29.00	34.00
120	34.00	40.00
144	47.00	56.00

American Steel & Wire Co.

New York Empire Building | **Montreal** N. Y. Life Building | **Chicago** The Rookery

BARBED WIRE GALVANIZED PLAIN WIRE PLAIN TWIST CABLE FENCING

Telegraph and Telephone Wire; Mattress, Broom, Weaving Wires of every description; Rail Bonds, Bale Ties, Special Wires for all purposes, Springs, Horse Shoes, Wire Rope, Cold-drawn Steel Shafting.

SOIL PIPE AND FITTINGS.

Med. and Extra heavy pipe and fittings, dis. 60 per cent.
7 and 8-in. pipe, discount 40 and 5 per cent.

SOLDER.

	Per lb
Bar, half-and-half, guaranteed	0 17½
Wiping	0 15½
Refined	0 16¼

PAINTS AND OILS.

COLORS IN OIL.

1-lb. tins, pure.

Venetian red, per lb.	0 08
Chrome yellow	0 15
Golden ochre	0 08
French "	0 06
Marine black	0 04
Chrome green	0 10
French permanent green	0 13
Signwriters' black	0 15

WHITE LEAD.

	Per 100 lb.
Pure	4 60 4 75
No. 1	4 35 4 50
No. 2	4 20
No. 3	3 37½
No. 4	3 35
Munro's Select Flake White	4 75
Elephant and Decorators' Pure	4 75
Tiger brand, pure	5 00
Decorators' Special for exterior use	4 25
Monarch	5 00
Decorator's Pure	4 75
Essex Genuine	4 25
Sterling Pure	5 00
Island City Pure	5 00
Ramsay's Pure Lead	4 75 5 00
Ramsay's Exterior	4 50 4 75

RED LEAD.

Genuine, 560 lb. casks, per cwt	$4 50
Genuine, 100 lb. kegs, "	4 75
No. 1, 560 lb. casks, per cwt	4 00 4 25
No. 1, 100 lb. kegs, per cwt	4 75

WHITE ZINC.

Extra Red Seal	0 06 0 08
French V. M.	0 06½ 0 07
Lehigh	0 06 0 06½
Pure	0 07½
No. 1	0 06½
No. 2	0 05½

DRY WHITE LEAD.

Pure, casks	4 50
Pure, kegs	4 75
No. 1, casks	4 00
No. 1, kegs	4 25

PREPARED PAINTS.

In ¼, ½ and 1-gallon tins.

Pure, per gallon	1 20
Second qualities, per gallon	1 00
Barn (in bbls.)	0 60 0 90
The Sherwin-Williams paints	1 35
Canada Paint Co.'s pure	1 25
Toronto Lead & Color Co's pure	1 25
Sanderson Pearcy's pure	1 20
Standard Co.'s "New Era."	1 30
"Globe" barn	60 70
Francis-Frost Co.'s "Ark" B'd	1 25
" British Navy deck	1 50
Henderson & Potts's "Anchor"	1 35
Ramsay's paints, Pure, per gal.	1 20
" Thistle, "	1 00
" Outside, bbls	0 55 0 65
Island City House Paint	1 25
" Floor "	1 25
Sterling House Paint	1 20
" Floor "	1 10
Stewart & Wood's pure	1 20
National	1 05

PARIS GREEN.

Petroleum, barrels, per lb.	0 13½
Arsenic, kegs	0 13½
50 and 100-lb. drums	0 14
25-lb. drums	0 14½
1-lb. paper boxes	0 15
½-lb. paper boxes	0 17

Terms -2 per cent. off 30 days, or 90 days

PUTTY.

Bulk in bbls.	1 50
Bulk in less quantity	1 80
Bladders in bbls.	1 65 1 75
Bladders in kegs, boxes or loose	1 90
25-lb. tins	1 80
12½ lb. tins	2 05
Bladders in bulk or tins less than 100 lb.	1 85

VARNISHES.

	In 5-gal. lots.	Per gal.	Net.
Carriage, No. 1		1 50	1 60
Pale durable body		4 10	4 25
" rubbing		2 85	3 20
Gold size, japan		1 50	1 60
No. 1 brown japan		0 85	0 90
Elastic oak			1 50
Furniture, extra		1 10	1 25
" No. 1		0 90	1 00
Hard oil finish		1 35	1 50
Light oil finish		1 60	1 70
Damar		1 75	2 00
Shellac, white		2 40	2 50
" orange		2 30	2 40
Turpentine, brown japan		1 10	1 20
" black japan		1 10	1 20
" " No. 1.		0 85	0 90
Elastilite varnish, 1 gal. can, each			2 00
Granitine floor finish, per gal			2 75

Maple Leaf coach enamels; size 1, $1.20; size 2, 70c.; size 3, 40c. each.
Sherwin-Williams' kopal varnish, assorted case, from to 1 gal., $2.50.

GLUE.

Common	0 08 0 08½
French medal	0 10 0 14
White, extra	0 18 0 22
Gelatine	
Strip	0 18 0 20
Coopers	0 19 0 20
Huttner	
Ground	0 12 0 16
Cologne, genuine	

HARDWARE.

AMMUNITION.

Cartridges.

B. B. Caps Dominion, 50 and 5 and 25 per cent.
American $2.00 per 1000.
C. B. Caps American, $2.60 per 1000.
Rim Fire Pistol, discount 30 p.c., American.
Rim Fire Cartridges, Dominion, 50 and 5 p.c.
Central Fire, Military and Sporting, American, add 20 per cent. to list. B.B. Caps, discount 40 per cent., American.
Central Fire Pistol and Rifle, list net Amer.
Central Fire Cartridges, pistol sizes, Dominion, 30 per cent.
Central Fire Cartridges, Sporting and Military, Dominion, 15 per cent. American 10 per cent. advance on list.
Loaded and empty Shells, "Trap" and "Dominion" grades, 25 per cent. discount. American 20 per cent. discount. Rival and Nitro, 10 per cent. advance on list.
Brass Shot Shells, 55 per cent.
Primers, Dom., 30 per cent.; American, $1.75

Wads. per lb.

Best thick brown or grey felt wads, in ½-lb. bags $0 70
Best thick white card wads, in boxes of 500 each, 12 and smaller gauges 0 29
Best thick white card wads, in boxes of 500 each, 10 gauge 0 35
Thin card wads, in boxes of 1,000 each, 12 and smaller gauges 0 20
Thin card wads, in boxes of 1,000 each, 10 gauge 0 25

Chemically prepared black edge grey cloth wads, in boxes of 250 each— Per M.

11 and smaller gauge	0 60
9 and 10 gauges	0 70
7 and 8 "	0 90
5 and 6 "	1 10

Superior chemically prepared pink edge, best white cloth wads, in boxes of 250 each—

11 and smaller gauge	1 15
9 and 10 gauges	1 40
7 and 8 "	1 65
5 and 6 "	1 90

ADZES.

Discount 22½ per cent.

ANVILS.

Wright's, 80-lb. and over	0 10¼
Hay Budden, 80-lb. and over	0 09¼
Brook's, 80-lb. and over	0 11½

APPLE PARERS.

Woodyatt Hudson, per doz., net 4 50

AUGERS.

Gilmour's, discount 60 per cent. off list.

AXES.

Chopping Axes		
Single bit, per doz.	7 00	10 00
Double bit, "	10 00	18 00
Bench Axes, 40 per cent.		
Broad Axes, 25 per cent.		
Hunters' Axes	5 50	6 00
Boys' Axes	6 25	7 00
Splitting Axes	7 00	12 00
Handled Axes		10 00

AMERICAN AXE AND TOOL CO.

Red Ridge, boys', handled	5 75
" hunters	5 25

Underhill American Bench Axes, 40 p.c.

AXLE GREASE.

Ordinary, per gross	6 00 7 00
Best quality	10 00 12 00

BELLS.

Hand.

Brass, 60 per cent.
Nickel, 55 per cent.

Cow.

American make, discount 63⅓ per cent.
Canadian, discount 45 and 50 per cent.

Door.

Gongs, Sargant's 5 50 8 00
" Peterboro', discount 50 and 10 per cent. off new list.

Farm.

American, each 1 35 3 00

House.

American, per lb. 0 35 0 40

BELTING.

Extra, 60 per cent.
Standard, 60 and 10 per cent.
No. 1, not wider than 6 in., 60, 10 and 10 per cent.
Agricultural, not wider than 4 in., 75 per cent.

BITS.

Auger.

Gilmour's, discount 60 per cent.
Rockford, discount 50 and 10 per cent.
Jennings' Gen., net list.

Car.

Gilmour's, 47½ per cent.

Expansive.

Clark's, 40 per cent.

Gimlet.

Clark's, per doz	0 65	0 90
Diamond, Shell, per doz	1 00	1 50
Nail and Spike, per gross	2 25	5 20

BLIND AND BED STAPLES.

All sizes, per lb. 0 07½ 0 12

BOLTS AND NUTS

	Per cent.
Carriage Bolts, common (81 list	
" " ⅝ and smaller	60 and 10
" " 7-16 and up	55 and 5
" " full sq. ($2.40 list)	60
" " Norway Iron ($3 list)	60
Machine Bolts, all sizes, ⅜ and less	55
Machine Bolts, 7-16 and up	55 and 5
Plough Bolts	55 and 5
Blank Bolts	55 and 5
Bolt Ends	55 and 5
Sleigh Shoe Bolts	70
Coach Screws, cone point	70 and 5

Nuts, square, all sizes, 4c. per lb. off.
Nuts, hexagon, all sizes, 4½c. per lb. off.
Stove Rods per lb., 5½ to 6c.

BOOT CALKS.

Small and medium, ball per M.	4 25
Small heel "	4 50

BRIGHT WIRE GOODS.

Discount 62½ per cent.

BUTCHERS' CLEAVERS.

German per doz.	6 00 9 00
American "	12 00 18 00

BUTCHER KNIVES.

Bailey's per doz.	0 60 6 30

BUILDING PAPER, ETC

Tarred Felt, per 100 lb.	1 85
Ready roofing, 2-ply, not under 45 lb. per roll	0 90
Ready roofing, 3-ply, not under 65 lb., per roll	1 15
Carpet Felt per ton	45 00
Heavy Straw Sheathing per ton	35 00
Dry Sheathing per roll, 400 sq. ft.	0 40
Tar " 400 "	0 50
Dry Fibre " 400 "	0 40
Tarred Fibre " 400 "	0 50
O. K. & I. X. L. " 400 "	0 70
Resin-sized " 400 "	0 45
Oiled Sheathing " 600 "	1 00
Oiled " " 400 "	0 70
Root Coating, in barrels per gal.	0 17
Roof " small packages "	0 25
Refined Tar per barrel	5 00
Coal Tar "	4 00
Coal Tar, less than barrels per gal.	0 15
Roofing Pitch per 100 lb.	0 80 0 90
Slater's felt per roll	0 60

BULL RINGS.

Copper, $1.30 for 2½-inch, and $1.70

BUTTS.

Wrought Brass, net revised list.

Cast Iron.

Loose Pin, discount 60 per cent

Wrought Steel.

Fast Joint, discount 70 to 70 and 5 per cent.
Loose Pin, discount 70 to 70 and 5 per cent.

CARPET STRETCHERS.

American per doz.	1 00 1 50
Bullard's "	6 50

CASTORS.

Bed, new list, discount 55 to 57½ per cent.
Plate, discount 52½ to 57½ per cent.

CATTLE LEADERS.

Nos. 32 and 33 per gross	7 50 8 50

CHALK.

Carpenters' Colored, per gross	0 45 0 75
White lump per cwt.	0 60 0 65
Red	0 05 0 06
Crayon per gross	0 14 0 18

CHISELS.

Socket, Framing and Firmer.

Broad's, discount 70 and 5 per cent.
Warnock's, discount 70 per cent.
P. S. & W. Extra, discount 60 and 10 per cent.

FOODS—STOCK.

	per doz
Colonial Stock Foods, 50c. packages,	$4 00
" " " 25c. pkgs., "	2 00
" " " 10c. " "	75
" " " 25-lb. pail, each	1 30
Poultry Foods, 25c. packages	1 25
Cough Powders, per doz.	1 25
Worm "	1 25

Internation 1 Stock Foods, $1 packages, per doz.	8 00
International Stock Foods, per pail	2 75
" " " per bbl.	10 50
" Poultry " $1 pkgs., per doz	8 00
" Worm Powders, 50c. pkgs.	4 00
" Pine Healing Oil, per doz.	8 00
" Pheno-Chloro, $1 pkgs., per doz	8 00
" Hoof Ointment	8 00
" Compound Absorbent	16 00

Also 25c. pkgs. at $2 per doz. 50c. pkgs. 4 per doz

CLOTHES REELS.

Davis Clothes Reels, dis. 40 per cent

Paterson's Wire Edged Ready Roofing

Fire-proof and Sanitary:
Easy to put on:
Hard to wear out:
Don't cost much.

You have hundreds of Customers who require that kind of Roofing Material.

The Paterson Mfg. Co., Limited

Toronto and Montreal.

CONDUCTOR PIPE.

Plain or Corrugated.

2-inch	per 100 feet	3 00
3 "	" "	4 00
4 "	" "	5 25
5 "	" "	6 75
6 "	" "	9 00

CRADLES, GRAIN.

Canadian, discount 20 to 25 per cent.

CROSSCUT SAW HANDLES.

S. & D., No. 3	per pair	0 15
S. & D., " 5	"	0 22½
S. & D., " 6	"	0 15
Boynton pattern	"	0 20

DOOR SPRINGS.

Torrey's Rod	per doz.	1 75
Coil, 9 to 11 in	"	0 95 1 65
English	"	2 00 4 00

DRAW KNIVES.

Coach and Wagon, discount 50 per cent.
Carpenters' discount 70 per cent.

DRILLS.

Hand and Breast.

Millar's Falls, per doz., net list.

DRILL BITS.

Morse, discount 37½ to 40 per cent.
Standard, discount 50 and 5 to 55 per cent.

FAUCETS.

Common, cork-lined, discount 35 per cent.

EAVETROUGHS.

10-inch per 100 ft.	10 00

ELBOWS (stovepipe.)

5 and 6-inch, common	per doz.	1 20
7-inch	"	1 35

Polished, 15c. per dozen extra.

ESCUTCHEONS.

Discount 50 and 10 per cent., new list

ESCUTCHEON PINS.

Iron, discount 40 per cent.

FACTORY MILK CANS.

Discount off revised list, 40 per cent.

FILES AND RASPS.

Great Western	70 and 10 per cent.
Arcade	70 " 10 "
Kearney & Foot	70 " 10 "
Disston's	70 " 10 "
American	70 " 10 "
J. Barton Smith	70 " 10 "
McClellan	70 " 10 "
Eagle	70 " 10 "
Nicholson, 60 and 10 to 60, 10 and	5 "
Royal	80 "
Globe	70 to 75 "

Black Diamond, 60 and 10 to 60, 10 and 5 per cent.
Jowitt's, English list, 25 to 27½ per cent.
Nicholson File Co.'s "Simplicity" file handle, per gross 85c. to $1.50

GLASS.

Window. Box Price.

Size United Inches.	Star Per 50 ft.	Star Per 100 ft.	D. Diamond Per 50 ft.	D. Diamond Per 100 ft.
Under 26	....	3 80	....	5 06
26 to 40	....	4 00	....	5 44
41 to 50	....	4 50	....	6 56
51 to 60	....	4 75	....	7 50
61 to 70	....	5 00	....	8 62
71 to 80	....	5 30	....	9 38
81 to 85	....	....	....	10 75
86 to 90	....	....	....	12 30
91 to 95	....	..	....	15 00
96 to 100	....	....	..	18 00
96 to 100	....	..	....	18 00

GAUGES.

Marking, Mortise, Etc.

Stanley's discount 50 to 55 per cent.

Wire Gauges.

Winn's, Nos. 26 to 33	each	1 65 2 40

GILLETT'S POWDERED LYE.

1-case, $3.70; 3-case, $3.60; 5-case and over, $3.50.

HALTERS.

Rope, ⅜-inch	per gross	9 00
Rope, ½ "	"	12 00
Rope, ⅝ to ¾-inch	"	14 00
Leather, 1-inch	per doz.	4 00
Leather, 1¼ "	"	5 20
Web	"	2 45

HAMMERS.

Nail.

Maydole's, discount 5 to 10 per cent. Canadian discount 25 to 27½ per cent.

Tack.

Magnetic	per doz.	1 10 1 20

Sledge.

Canadian	per lb.	0 07 0 08½

Ball Pean.

English and Canadian, per lb.		2½ 0 25

HANDLES.

Axe, 2nd growth, per doz. net		3 00 4 00
Store door	per doz.	1 00 1 50

Fork.

C. & B., discount 40 per cent., revised list.

Hoe.

C. & B., discount 40 per cent., revised list.

Saw.

American	per doz	1 00 1 25

Plane.

American	per gross	3 15 3 75

Hammer and Hatchet.

Canadian, discount 40 per cent.

HANGERS.

	doz.	pairs.
Steel barn door	8 00	10 00
Stearns, 4-inch	....	4 50
" 5-inch	....	6 00
Zenith	....	9 00
Lane's covered—		
No. 11, 5-foot run	....	8 40
No. 11½, 10-foot run	....	10 80
No. 12, 10-foot run	....	12 60
No. 14, 15-foot run	....	21 00
Steel, covered	4 00	11 00
" track, 1 x 3-16 in(100 ft)	....	3 75
" " 1¼ x 3-16 in(100 ft)	....	4 75

HARVEST TOOLS.

Discount 60 per cent.
S. & D. lawn rakes, Dunn's, 40 off.
" sidewalk and stable scrapers, 40 off.
" Maple Leaf and Premiums saw sets, 40 off.
" saw swages, 40 off.

HATCHETS.

Canadian, discount 40 to 42½ per cent.

Shingle, Red Ridge 1, per doz		4 40
" " 2, "		4 85
Barrel, Underhill		5 00

HAT ENAMEL.

Henderson & Potts' "Anchor Brand"

HINGES.

Blind, Parker's, discount 60 per cent.

Heavy T and strap, 4-in., per lb		0 06½
" " 5-in., "		0 06½
" " 6-in., "		0 06
" " 8-in., "		0 05½
" " 10-in., "		0 05½

Light T and strap, discount 65 and 5 per cent.

Screw hook and hinge—

6 to 10 in	per 100 lb.	4 50
12 in. up	"	3 25
Spring, No. 20, per gro. pairs		10 80

Spring, Woodyatt pattern, per gro., No. 5, $17.50; No. 10, $18; No. 20, $10.80; No. 120, $20; No. 51, $10; No. 50, $27.50.

HOES.

Garden, Mortar, etc., discount 60 per cent.

Planter	per doz.	4 00 4 50

HOLLOW WARE.

Tinned cast, 35 per cent.

HOOKS.

Cast Iron.

Bird cage	per doz.	0 50 1 10
Clothes line, No. 61	"	0 00 0 70
Harness	"	0 60 12 00
Hat and coat	per gro.	1 10 10 00
Chandelier	per doz.	0 50 1 00

Wrought Iron.

Wrought hooks and staples Canadian discount 60 per cent.

Wire.

Hat and coat, discount 60 per cent.

Belt	per 1,000	0 60

Screw, bright, discount 62½ per cent.

HORSE NAILS.

"P.B." Brand, 55 to 60 per cent.
"C' brand, 40, 10 and 7½ per cent. off list { Oval
M.R.M. Co. brand, 55 per cent. { Head
"Monarch," 50 and 7½ per cent.
"Peerless" 50 per cent. dis.

HORSESHOES.

F.O.B. Montrea

"P.B." brand, new pattern, base	$3 50
M.R.M.'Co. brand, base	3 65

Add 15c. Toronto, Hamilton, Guelph.

JAPANNED WARE.

50 per cent.

PICKS.

Star	per doz.	3 00 3 25

KETTLES.

Brass spun 7½ per cent. discount off new list.

Copper	per lb.	0 30 0 50

American, 60 and 10 to 65 and 5 per cent.

KEYS.

Lock, Canadian dis. 40 to 40 and 10 per cent.
Cabinet trunk and padlock

American	per gross	0 60

KNOBS.

Door, japanned and N.P., per doz	1 50	2 50
Bronze, Berlin	per doz.	2 75 3 25
Bronze, Genuine	"	6 00 9 00
Shutter, porcelain, F. & L. screw	per gross	1 30 2 00
White door knobs	per doz.	2 00

HAY KNIVES.

Net prices.

LAMP WICKS.

Discount, 60 per cent.

LADDERS, EXTENSION.

Waggoner Extension Ladders, dis. 40 per cent.

LANTERNS.

Cold Blast	per doz.	4 50
No. 3, "Wright's"	"	8 50
Ordinary, with O burner	"	4 00
Dashboard, cold blast	"	9 00
No. 0	"	5 75

Japanning, 50c. per doz. extra.

LEMON SQUEEZERS.

Porcelain lined	per doz.	2 20 5 60
Galvanized	"	1 87 3 85
King, wood	"	2 75 2 90
King, glass	"	4 00 4 50
All glass	"	0 50 0 90

LAWN MOWERS FOR 1905.

Woodyatt, 10½-in., 14-in. cut	$ 8 50	to $11 00
Star, 9 -in.	" 6 00	to 6 50
Daisy, 8 -in.	" 5 25	to 5 75
Philadelphia, 7½-in.	" 6 00	to 7 50
Woodyatt, 10½-in., ball bearing	13 25	to 18 00
Grass Boxes	1 75	to 2 00
King Edw'd, 12-in., 14-in. cut	9 00	to 10 00

Horse Lawn Mowers, "Special."

Discount, 50 per cent., with freight concessions in quantity shipments.

Maxwell & Sons

10½-in. high wheel	0	10 00
9-in	5 50	6 25
8-in	4 90	5 50

Discount 50 per cent.

LOCKS.

Canadian, 50 to 50 and 10 per cent
Russell & Erwin, steel rim ..per doz. 2 25

Cabinet.

Eagle, discount 30 per cent.

Padlocks.

English and Am	per doz.	0 50 6 00

Eagle, discount 20 to 25 per cent.

MACHINE SCREWS.

Iron and Brass.

Flat head, discount 25 per cent.
Round head, discount 20 per cent.

MALLETS.

Tinsmiths'	per doz.	1 25 1 50
Carpenters', hickory,	"	1 25 3 75
Lignum Vitae	"	3 85 5 00
Caulking, each		0 60 2 00

MATTOCKS.

Canadian	per doz.	5 50 6 00

MEAT CUTTERS.

American, discoun 3½ per cent.
German, 15 per cen
Gem ..... each 1 15

MILK CAN TRIMMINGS.

Discount 25 per cent.

NAILS.	Cut.	Wire.
2d	3 40	3 25
3d	3 05	2 90
4 and 5d	2 80	2 65
6 and 7d	2 70	2 55
8 and 9d	2 55	2 40
10 and 12d	2 50	2 35
16 and 20d	2 45	2 30
30, 40, 50 and 60d (base)	2 40	2 25

F.o.b. Toronto.
Steel cut nails 10c. extra.
Miscellaneous wire nails, discount 75 per cent.
Coopers' nails, discount 30 per cent.

NAIL PULLERS.

German and American	85	2 50
No. 1	85	
No 1573	75	

NAIL SETS.

Square, round and octagon, per gross	3 38	
Diamond	1 00	

POULTRY NETTING.

2-in. Mesh, 19 w.g., dis. 60 per cent.
2-in. Mesh 16 w.g. and heavier, 50 p.c.

OAKUM.

U. S. Navy	per 100 lb.	6 75
Plumbers	"	3 00

OILERS.

McClary's Model galvanized oil can, with pump, 5 gallon, per dozen	10 00
Davidson oilers, discount 40 per cent.	
Zinc and tin, discount 50, 50 and 10 per cent	
Copper per doz.	1 25 3 50
Brass "	1 50 3 50
Malleable, discount 25 per cent	

GALVANIZED PAILS.

Dufferin pattern pails, discount 47½ per cent
Flaring pattern, discount 47½ per cent.
Galvanized washtubs, discount 47½ per cent

PIECED WARE.

Discount 40 per cent off list, June, 1899.
10-qt. flaring sap buckets, discount 40 per cent
6, 10 and 14-qt. flaring pails dis. 40 per cent.
Creamer cans, discount 40 per cent.

PICKS.

Per dozen		6 00 9 00

PICTURE NAILS.

Porcelain head	per gross	1 35 1 50
Brass head	"	0 40 1 00

PICTURE WIRE.

Tin and gilt, discount 75 per cent.

PINE TAR.

pint in tins	per gross	7 80
1 "	"	9 60

PLANES.

Wood bench, Canadian discount 40 per cent.
American discount 50 per cent.
Wood, fancy Canadian or America 37 40 per cent

WINDOW SHADES

Special attention and promptness with all orders has put us ahead so fast in the Window Shade trade that we believe we would surprise Canadian buyers. You are invited to send in your enquiries for our Catalogue, or for our Traveller to call upon you. We please others and can please you.

SMITH, CARTER & SMITH, LIMITED

OFFICES—

681, 683, 685 CRAIG ST., MONTREAL.



PLANE IRONS.

English .....per doz. 2 00 5 00

PLIERS AND NIPPERS.

Button's genuine, per doz. pairs, discount 37½ to 40 per cent.
Button's imitation....per doz. 5 00 9 00
German ..... " 0 60 0 60

PRESSED SPIKES.

Discount 20 per cent.

PULLEYS.

Hothouse .....per doz. 0 55 1 00
Axle ..... " 0 22 0 33
Screw ..... " 0 22 1 00
Awning ..... " 0 35 2 50

PUMPS.

Canadian cistern 1 80 3 60
Canadian pitcher spout 1 40 2 10

PUNCHES.

Saddler's .....per doz. 1 00 1 85
Conductor's..... " 3 00 15 00
Tinners', solid.....per set 0 72
" hollow.....per inch 1 00

RAKES.

Wood..... per doz. net 1 20 up.

RAZORS.

per doz.

Elliot's 4 00 18 00
Geo. Butler's & Co.'s..... 4 00 18 00
Boker's 7 50 11
" King Cutter 13 50 18 50
Wade & Butcher's..... 3 60 10 00
Carbo Magnetic..... .... 15 00
Griffon Barber's Favorite 10 75
Griffon No. 65..... .... 13 00
Griffon Safety Razors..... .... 13 50
Griffon Stropping Machines.. .... 13 50
Lewis Bros' "Klean Kutter" 8 50 10 50
Hindoo 10 50 14 00
Orgsteom's Swedish..... 3 50 10 00
Henckel's 7 50 20 00
Clauss, 50 and 10 per cent.
Clauss Strops, 50 and 10 per cent.

REGISTERS.

Discount 40 per cent.

RIVETS AND BURRS.

New List.

Iron Rivets, black and tinned, 60 and 10 and 10 per cent.
Iron Burrs, discount 60 and 10 and 10 p.c.
Copper Rivets, with usual proportion burrs, 45 per cent.
Copper Burrs only, discount 30 and 10 per cent.
Extras on Tinned or Coppered Rivets, ½-lb. packages 1c. per lb.; ¼-lb. packages 2c. lb.

RIVET SETS.

Canadian, discount 35 to 37½ per cent.

ROPE, ETC.

Sisal..... 0 11
Pure Manilla 0 14½
"British" Manilla..... 0 11
Cotton, 3-16 inch and larger 0 21 0 25
" 5-32 inch 0 25 0 27
" ⅛ inch 0 25 0 28
Russia Deep Sea 0 16
Jute..... 0 09
Lath Yarn, single 0 10
" double 0 10½
Sisal bed cord, 48 feet.....per doz. 0 65
" " 60 feet..... " 0 80
" " 72 feet..... " 0 95

RULES.

Boxwood, discount 70 per cent.
Ivory, discount 20 to 25 per cent.

SAD IRONS.

Mrs. Potts, No. 55, polished....per set 0 75
" No. 50, nickle-plated, " 0 80
Common, plain..... 4 50
" plated 5 50

SAND AND EMERY PAPER.

B. & A. sand, discount, 40 and 5 per cent
Emery, discount 40 per cent.
Garnet (Rurton's) 5 to 10 per cent. advance on list.

SAP SPOUTS.

Bronzed iron with hooks ....per 1,000 7 50
"Eureka" tinned steel, hooks 8 00

SAWS.

Hand, Disston's, discount 12½ per cent
S. & D., discount 40 per cent.
Crosscut, Disston's....per foot 0 35 0 55
S. & D., discount 35 per cent. on Nos. 2 and 3.
Hack, complete.....each 0 75 2 75
" frame only.....each 0 50 1 25
S. & D. solid tooth circular shingle, concave and band, discount 50 per cent.
" mill and ice, drag, discount 30 per cent
" cross-cut, discount 35 per cent.
" hand saws, butcher, disc't 40 per cent
" compass, pruning and back, discount 45 per cent.
" buck, New Century.....$6 25
" " No. 1 Maple Leaf..... 5 25
" " Happy Medium..... 4 25
" " Watch Spring..... 4 25
" " common frame..... 4 00

SASH WEIGHTS.

Sectional.....per 100 lb. 2 00 2 25
Solid ..... " 1 50 1 75

SASH CORD.

Per lb..... 0 28 0 30

SAW SETS.

per doz.

Lincoln and Whiting 4 75
Hand Sets, Perfect 4 00
X-Cut Sets, " 7 50

SCALES.

Gurney Standard, 40 per cent.
Gurney Champion, 50 per cent.
Burrow, Stewart & Milne—
Imperial Standard, discount 40 per cent.
Weigh Beams, discount 35 per cent.
Champion Scales, discount 50 per cent.
Fairbanks standard, discount 35 per cent.
" Dominion, discount 55 per cent.
" Richelieu, discount 55 per cent.
Warren's new Standard, discount 40 per cent.
" " Champion, discount 50 per cent.
" Weighbeams, discount 35 per cent.

SCREW DRIVERS.

Sargent's .....per doz. 0 65 1 00

SCREEN DOORS.

Common doors, 2 or 3 panel, walnut stained, 4-in. style.....per doz. 6 50
Common doors, 2 or 3 panel, yellow and green stained, 4-in. style....per doz. 6 75
Common doors, 2 or 3 panel, in natural colors, oil finish .....per doz. 8 75
3-in. style 20c. per dozen less.

SCREWS.

Wood, F. H., bright and steel, discount 87½ per cent.
Wood, R. H., bright, dis. 82½ per cent.
" F. H., brass, dis. 80 per cent.
" R. H., " dis. 75 per cent.
" F. H., bronze, dis. 75 per cent.
" R. H., " dis. 70 per cent.
Drive Screws, dis. 87½ per cent.
Bench, wood .....per doz. 3 25 4 00
" iron ..... " 4 25 5 00
Set, case hardened, dis. 60 per cent.
Square Cap, dis. 50 and 5 per cent.
Hexagon Cap, dis. 45 per cent.

SCYTHES.

Per doz. net..... 6 00 9 00

SCYTHE SNATHS.

Canadian, discount 40 per cent.

SHEARS.

Clauss, nickel, discount 80 per cent.
Clauss, Japan, discount 67½ per cent.
Clauss, tailors, discount 40 per cent.
Seymour's, discount 50 and 10 per cent.

SHOVELS AND SPADES.

Canadian, discount 45 per cent.

SINKS.

Cast iron, 16 x 24..... .... 0 85
" 18 x 30..... .... 1 00
" 18 x 36..... .... 1 40

SNAPS.

Harness, German, discount 25 per cent.
Lock, Andrews' 4 50 11 50

SOLDERING IRONS.

1, 1½-lb..... per lb. 0 37
2-lb. or over ..... " 0 34

SQUARES.

Iron, No. 492 .....per doz. 1 90 2 25
" No. 493 ..... " 2 40 2 55
" No. 494 ..... " 3 25 3 40
Steel, discount 60 and 5 to 65 per cent.
Try and Bevel, discount 50 to 52½ per cent.

STAMPED WARE.

Plain, discount 75 and 12½ per cent. off revised list.
Retinned, discount 75 per cent. off revised list

STAPLES.

Galvanized 3 00
Plain 2 80
Coopers', discount 45 per cent.
Poultry netting staples, discount 40 per cent.

STOCKS AND DIES.

American discount 25 per cent.

STONE.

Washita .....per lb. 0 28 0 60
Hindostan ..... " 0 06 0 07
" slip ..... " 0 09 0 09
Labrador..... " 0 13
" Axe..... " 0 15
Turkey ..... " 0 50
Arkansas..... " 1 50
Water-of-Ayr ..... " 0 10
Scythe .....per gross 3 50 5 00
Grind, 40 to 200 lb., per ton.... .... 25 00
" under 40 lb., " 28 00
" 200 lb. and over 31 00

STOVEPIPES.

5 and 6 inch, per 100 lengths 7 00
7 inch..... " " 7 50

TACKS, BRADS, ETC.

Carpet tacks, blued ..... 80 and 15
" " tinned..... 80 and 20
" " (in kegs)..... 40
Cut tacks, blued, in dozens only 80
" ¼ weights 60
Swedes cut tacks, blued and tinned—
In bulk..... 80 and 10
In dozens 75
Swedes, upholsterers', bulk....85, 12½ and 12½
" brush, blued and tinned bulk 70
Swedes, gimp, blued, tinned and japanned..... 75 and 12½
Zinc tacks 35
Leather carpet tacks..... 55
Copper tacks..... 50
Copper nails 52½
Trunk nails, black ..... 65 and 5
Trunk nails, tinned..... 65 and 10
Clout nails, blued ..... 65 and 5
Chair nails..... 35
Patent brads..... 40
Fine finishing..... 40
Lining tacks, in papers..... 10
" " in bulk..... 15
" " solid heads, in bulk 75
Saddle nails, in papers..... 10
" " in bulk..... 15
Tufting buttons, 22 line, in dozens only 60
Zinc glaziers' points 5
Double pointed tacks, papers.. 90 and 10
" " " bulk.... 40
Clinch and duck rivets..... 45

TAPE LINES.

English, ass skin.....per doz. 2 75 5 00
English, Patent Leather 5 50 9 75
Chesterman's .....each 0 90 2 85
" steel.....each 0 80 8 00

TINNERS' SNIPS.

Per doz..... 3 00 15 00
Clauss, discount 35 per cent.

THERMOMETERS.

Tin case and dairy, 75 to 75 and 10 per cent.

TRAPS (steel.)

Game, Newhouse, discount 25 per cent.
Game, H. & N., P. S. & W., 45 and 5 per cent.
Game, steel, 60 and 5 per cent.

TROWELS.

Disston's, discount 10 per cent.
German.....per doz. 4 75 6 00
S. & D., discount 35 per cent.

TWINES.

Bag, Russian .....per lb. 0 27
Wrapping, cotton, 3-ply 0 24
" 4-ply 0 27
Mattress .....per lb. 0 33 0 45
Staging..... " 0 27 0 35

VISES.

Wright's..... .... 0 13½
Brook's..... .... 0 12½
Pipe Vise, Hinge, No. 1..... .... 3 50
" " No. 2..... .... 5 50
Saw Vise..... ..... 4 50 9 00

Columbia Hardware Co.

Blacksmiths' (discount) 60 per cent.
" parallel (discount) 45 per cent

ENAMELLED WARE.

White, Princess, Turquoise, Blue and White discount 50 per cent.....
Diamond, Famous, Premier, discount 50 and 10 per cent.....
Granite or Pearl, Imperial, Crescent, discount 50, 10 and 10 per cent.
Premier steel ware, 40 per cent.
"Star" decorated steel and decorated whit 25 per cent.

WIRE.

Smooth Steel Wire.

No. 0-9 gauge..... $2 25
10 " ..... 6c. extra.
11 " ..... 12c. "
12 " ..... 20c. "
13 " ..... 30c. "
14 " ..... 40c. "
15 " ..... 55c. "
16 " ..... 70c. "

Add 60c. for coppering and $2 for tinning.

Extra net per 100 lb.—Oiled wire 10c. spring wire $1.25, special hay baling wire 30c., best steel wire 75c., bright soft drawn 15c., charcoal (extra quality) $1.25, packed in casks or cases 15c., bagging and papering 10c., 50 and 100-lb. bundles 10c., in 25-lb. bundles 15c., in 5 and 10-lb. bundles 25c., in 1-lb. hanks, 50c., in ½-lb. hanks 75c., in ¼-lb. hanks $1.

Fine Steel Wire, discount 27½ per cent.

List of extras: In 100-lb. lots: No. 17, $5—No. 18, $5.50—No. 19, $6—No. 20, $6.65—No. 21, $7—No. 22, $7.30—No. 23, $7.65—No. 24, $8—No. 25, $9—No. 26, $9.50—No. 27, $10—No. 28, $11—No. 29, $12—No. 30, $13—No. 31, $14—No. 32, $15—No. 33, $16—No. 34, $17. Extras net—tinned wire, Nos. 17-25, $2—Nos. 26-31, $4—Nos. 32-34, $6. Coppered, 5c.—oiling, 10c.—in 25-lb. bundles, 15c.—in 5 and 10-lb. bundles, 25c.—in 1-lb. hanks, 25c.—in ½-lb. hanks, 38c.—in ¼-lb. hanks, 50c.—packed in casks or cases, 15c.—bagging or papering, 10c.

Brass wire, discount 60 per cent. off the list.

Copper wire, discount 60 per cent. net cash 30 days, f.o.b factory.

Galvanized wire, per 100 lb.—Nos. 4 and 5, $3.70 to $3.70—Nos. 6, 7, 8, $3.15 to $3.15—No. 9, $2.55 — No. 10, $3.20 to $3.20—No. 11, $3.25 to $3.25—No. 12, $2.65—No. 13, $2.75—No. 14, $3.75 to $3.75—No 15, $4.30—No. 16. $4.30. Base sizes, Nos. 6 to 9, $2.37½ f.o.b. Cleveland. In carlots 12½c. less.

Clothes Line Wire, regular 7 strand, No. 17. $4.65; No. 18. $2.90; No. 19, $2.60. Hollow 6 strand, No. 17, $4.30; No. 18, $2.70; No. 19, $2.35; No. 20, $2.30, f.o.b. Hamilton, Toronto, Montreal.

WIRE FENCING.

Galvanized barb..... 2 50 2 75
Galvanized, plain twist 2 50 2 75
Galvanized barb, f.o.b. Cleveland, $2 30 for small lots and $2 20 for carlots.

COILED SPRING WIRE.

High Carbon, No. 9..... $2 70
" No. 11 ..... 3 35
" No. 12 ..... 2 95

WIRE CLOTH.

Painted Screen, per 100 sq. ft., net.. 1 50
Terms, 2 per cent. off 30 days.

WASHING MACHINES.

Round, re-acting per doz. 56 00
Square " 59 00
Eclipse, per doz 48 00
Dowswell " 36 00
New Century, per doz 72 00
Connor Improved..... 33 00
Daisy..... 48 00

WRINGERS.

Leader .....per doz. 30 00 33 00
Royal Canadian..... " 24 00
Royal American..... " 24 00
Sampson..... " 24 00
Lightning..... " 27 00
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WROUGHT IRON WASHERS.

Canadian make discount 40 per cent.

Bicycle . . . Hardware

THE LARGEST AND MOST COMPLETE STOCK IN CANADA.

"EVERYTHING FOR THE BICYCLE"

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WE ARE BUSY BUT CAN SHIP PROMPTLY.

CANADA CYCLE & MOTOR CO., LIMITED

TORONTO JUNCTION.

INDEX TO ADVERTISERS.

A

Acme Lathe & Products Co 49
American Shearer Mfg. Co 21
American Steel and Wire Co 59
Armstrong Bros ..... inside back cover
Atlas Mfg. Co 56
Auer Light Co 61

B

Barnett, G. & H., Co ....outside back cover
Bartlett, Wm., & Son 54
Berry Bros 43
Birkett, Thos., & Son Co. 1
Boss Machine Co 8
Bosson Bros 56
Bradstreet's 64

C

Canada Brass Rolling Mills 24
Canada Cycle and Motor Co 2
Canada Foundry Co. 49
Canada Iron Furnace Co 31
Canada Paint Co 46
Canada Paper Co 51
Canadian Aluminum Works 26
Canadian Fairbanks Co 4
Canadian Rubber Co 12
Canadian Sewer Pipe Co 56
Cavers Bros 6
Clauss Shear Co 49
Consolidated Plate Glass Co 45
Consumers' Cordage Co 10
Contract Record 56
Covert Mfg. Co 6
Cutts, C. M. & Co 51

D

Davidson, Thos., Mfg. Co 2
Deseronto Iron Co 31
Dods, P. D., & Co 45
Dominion Wire Mfg. Co. 7
Dorken Bros. & Co ..outside front cover, 6
Dowswell Mfg. Co 47

E

Enterprise Mfg. Co 41, 64
Erie Specialty Co 64

F

Falkiner, H. F 50
Foster Pottery Co 50
Frothingham & Workman 9

G

Gibb, Alexander 20, 47
Gies, Philip 21
Gilbertson, W., & Co 47
Glauber Brass Co 21
Greening, B., Wire Co 7
Grose, Walter 37
Grove Chemical Co 47
Gurney Foundry Co 51
Gurney, Tilden Co 53
Gutta Percha and Rubber Mfg. Co ....
outside back cover

H

Hanover Portland Cement Co 54
Harrington & Richardson Arms Co 49
Harris, W. G 49
Heinisch, R., Sons Co 10
Henderson, J. A 51
Henderson & Potts Co 44
Hobbs Mfg. Co 55
Howland, H. S., Sons & Co 17
Hyde, F. & Co 31

I

Imperial Varnish and Color Co 42

J

Jackson, C. F., & Co 31
Jamieson, R. C., & Co 45
Jardine, A. B., & Co. 21
Jenking, A. C 54
Johnson's, Iver, Arms and Cycle Works 16
Johnston, Rd., Clapham & Morris. 6

K

Kemp Mfg. Co 12
Kerr Engine Co 20

L

Lamplough, F. W., & Co 43
Leslie, A. C., & Co 31
Lewis Bros. & Co. 3
Lewis Rice, & Son ..... inside front cover
Lockerby & McComb 53
London Fence Machine Co 41
London Rolling Mill Co..inside back cover
Loughead, J. S., & Son 6
Lucas, John & Co 43
Lufkin Rule Co .....inside back cover
Luxfer Prism Co 55
Lysaght, John. .....outside front cover

M

Mackenzie Bros 37
Maple Leaf Harvest Tool Co 5
Mast, J. M., Mfg. Co 10
Maxwell, D., & Sons 6
Metal Shingle and Siding Co 25
Metallic Roofing Co 35
Montreal Rolling Mills Co 20
Morton, B. K., & Co 31
Morrison, James, Brass Mfg. Co 18
Morrow, John, Machine Screw Co 21

Mc

McArthur, Alex., & Co 58
McArthur, Corneille & Co. 43
McCaskill, Dougall & Co 47
McClary Mfg. Co 26
McDougall, R., Co 31
McGregor-Banwell Fence Co 50

N

Naturo Co 22
Newman, W., & Sons 54
North Bros. Mfg. Co 1
Nova Scotia Steel and Coal Co 31

O

Oakey, John, & Sons 50
Office Specialty Mfg. Co 38
Oneida Community 9
Ontario Tack Co 14
Ontario Wind Engine and Pump Co .. 51
O-So-Ezy Mfg. Co 47
Owen Sound Wire Fence Co 7

P

Page-Hersey Iron and Tube Co 21
Page Wire Fence Co 25
Paterson Mfg. Co 60
Pedlar People 53, 57
Penberthy Injector Co 23
Phillips, Chas. D 54

Q

Queen City Oil Co 44

R

Ramsay, A., & Son Co 10, 23
Russell & Erwin Mfg. Co 9

S

Sadler & Haworth .....outside back cover
Samuel, M. & L., Benjamin, & Co 2
Sanderson-Harold Co 55
Scott, Greenwood & Co 45
Seymour, Henry T., Shear Co 10
Sharratt & Newth 10
Shaw, A., & Son 10
Sherwin-Williams Co 15
Silberstein, A. L., & Co 1
Silica Barytic Stone Co 56
Skedden Brush Co 48
Smith & Hemenway Co 21
Solarine Metal Polish 50
Standard Ideal Sanitary Co 18
Standard Paint and Varnish Works .. 45
Staniforth & Co 8
Stanley Rule and Level Co 54
Starr Mfg. Co 32, 33
Stephens, G. F., & Co 37
Summers, John, & Sons 6

T

Taylor-Forbes Co. outside front cover, 52
Technical Books 10
Thompson, B. & S. H., Co .....
outside back cover
Thorne, R. E 20
Turnbull & Henderson 20

U

United States Register Co 23
Utica Drop Forge and Tool Co 21

W

Wallace Barnes Co 21
Walter, E. F., & Co 4
Welsh Tinplate & Metal Stamping Co. . 4
Western Wire Nail Co 10
White Lead Association 45
Wilcox Mfg. Co 48
Wilkinson Sword Co 48
Winnipeg Paint and Glass Co 37
Wright, E. T., & Co 51

CLASSIFIED LIST OF ADVERTISEMENTS.

Aluminum Castings.
Canadian Aluminum Works Montreal.

Anvils
Taylor-Forbes Co,, Guelph, Ont.

Art Glass
Hobbs Mfg. Co., London, Ont.

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Cutts, C. M., & Co., Toronto Junction.

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Canada Cycle and Motor Co., Toronto.

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Bartlett, Wm., & Son, Toronto.

Babbitt Metal.
Canada Metal Co., Toronto.
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Birkett, Thos., & Co., Ottawa.
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Canada Cycle and Motor Co., Toronto Junction.
Johnson's, Iver, Arms and Cycle Works, Fitchburg, Mass.
Millen, John, & Sons, Montreal.

Box Straps.
Warminton, J. N., Montreal.

Brass Goods.
Canada Brass Rolling Mills, Toronto.
Glauber Brass Mfg. Co., Cleveland, Ohio.
Lewis, Rice, & Son., Toronto.
Morrison, Jas., Brass Mfg. Co., Toronto.
Nicklin, J., & Co., Birmingham, Eng.
Penberthy Injector Co., Windsor, Ont.
Taylor-Forbes Co., Guelph, Ont.

Brushes.
Ramsay, A., & Son Co., Montreal.
Skedden Brush Co., Hamilton, Ont.
United Factories, Toronto.

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The Locators, Winnipeg.

Cans.
Acme Can Works, Montreal.

Carpenters' and Builders' Tools and Supplies.
Bosson Bros., Brussles, Belgium.
Covert Mfg. Co., West Troy, N.Y.
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Pedlar People, Oshawa, Ont.
Phillips, Chas. D., Newport, Eng.
Smith & Hemenway Co., New York.
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Stephens, G. F., Winnipeg.
Taylor-Forbes Co., Guelph, Ont.
Waggoner Ladder Co., London, Ont.
Warnock, James, Galt, Ont.

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Lougheed, J. S., & Son, Sarnia, Ont.

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Greening, B., Wire Co., Hamilton.
Oneida Community Co., Niagara Falls.

Chains—Heavy.
Frothingham & Workman, Montreal.

Churns.
Dowswell Mfg. Co., Hamilton.
Maxwell, David, & Sons, St. Marys.

Clippers—All Kinds.
American Shearer Mfg. Co., Nashua, N.H.
Burman & Sons, Birmingham, Eng.
Dorken Bros. & Co., Montreal.

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Waggoner Ladder Co., London, Ont.

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Concrete Block Machine Co., Toronto.

Cordage.
Consumers' Cordage Co., Montreal.
Hamilton Cotton Co., Hamilton.

Cork Screws.
Erie Specialty Co., Erie, Pa.

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Turnbull & Henderson, Vancouver, B.C.

Cutlery—Razors, Scissors, etc.
Birkett, Thos., & Son Co., Ottawa.
Butler, Geo.. & Co., Sheffield, Eng.
Clauss Shear Co., Toronto.
Dorken Bros. & Co., Montreal.
Heinisch's, R., Sons Co., Newark, N.J.
Howland H. S., & Sons, Toronto.
Lamplough, F. W., & Co., Montreal.
Silberstein, A. L., New York.
Smith & Hemenway Co., New York.
Walter, E. F., & Co., Montreal.
Wiebusch & Hilger, New York.
Wilkinson Sword Co., London, Eng.

Educational.
Metropolitan Business College, Ottawa.
St. Margaret's College, Toronto.

Electric Fixtures.
Canadian Aluminum Works, Montreal.
Mechanics Supply Co., Quebec.
Morrison James, Mfg. Co., Toronto.
Munderloh & Co., Montreal.

Fence Machines.
London Fence Machine Co., London.

Files and Rasps.
Barnett Co., G. & H., Philadelphia, Pa.
Disston, Henry & Sons, Philadelphia, Pa.
Grose, Walter, Montreal.

Financial Institutions.
Bradstreet Co.
British America Assurance Co., Toronto.
Canadian Bank of Commerce, Toronto.
Confederation Life Ass., Toronto.
Metropolitan Bank, Toronto.
Western Assurance Co., Toronto.

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Cote, Boivin & Cie, Montreal.
Hamilton Rifle Co., Plymouth, Mich.
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Johnson's, Iver, Arms and Cycle Works, Fitchburg, Mass.
Walter, E. F., & Co., Montreal.

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Enterprise Mfg. Co., Philadelphia, Pa.
Lamplough, F. W., & Co., Montreal.
Russell & Erwin Mfg. Co., New Britain, Conn.
Smith & Hemenway Co., New York.

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Ontario Wind Engine and Pump Co., Toronto.

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Cavers Bros., Galt, Ont.
Staniforth, Thos., & Co.—J. S. Parkes, agent, Montreal.

Gas Lamps and Sundries.
Auer Light Co., Montreal.

Glaziers' Diamonds.
Sharratt & Newth, London, Eng.
Shaw, A., & Son, London, Eng.

Glue.
Grove Chemical Co., Lancashire, Eng.

Hardware Specialties.
Erie Specialty Co., Erie, Pa.
Mast, J. M., Mfg. Co., Lititz, Pa.

Harvest Tools.
Maple Leaf Harvest Tool Co., Tillsonburg, Ont.
Staniforth, Thos., & Co., Sheffield, Eng.

Hollow Ware.
Welsh Tinplate and Metal Stamping Co., Llanelly, Wales.

Horseshoe Pads.
Canadian Rubber Co. of Montreal.

Horseshoes and Nails.
Canada Horse Nail Co., Montreal.
Montreal Rolling Mills Co., Montreal.
Peck Rolling Mills Co., Montreal.

Hot Water Boilers.
Gies, Philip, Berlin, Ont.
Gurney Foundry Co., Toronto.

Ice Cream Freezers.
Dana & Co., Cincinnati, Ohio.
Davidson, Thos., Mfg. Co., Montreal.
North Bros. Mfg. Co., Philadelphia, Pa.
White Mountain Freezer Co., Nashua.

Ice Cutting Tools.
Erie Specialty Co., Erie, Pa.
North Bros. Mfg. Co., Philadelphia, Pa.

Injectors—Automatic.
Morrison, Jas., Brass Mfg. Co., Toronto.
Penberthy Injector Co., Windsor, Ont.

Iron Pipe.
Montreal Rolling Mills Co., Montreal
Page-Hersey Iron and Tube Co., Guelph.

Iron Pumps.
McDougall, R., Co., Galt, Ont.

Keys.
Millen, John & Son, Montreal.

Ladders—Extension.
Waggoner Ladder Co., London, Ont.

Lanterns.
Kemp Mfg. Co., Toronto.
Ontario Lantern Co., Hamilton, Ont.
Wright, E. T., & Co., Hamilton.

Lawn Mowers.
Birkett, Thos., & Son Co., Ottawa.
Maxwell, David, & Sons, St. Marys Ont.
Taylor-Forbes Co., Guelph, Ont.

Legal Cards.
Atwater, Duclos & Chauvin, Montreal.
Beatty, Blackstock, Haskon, Riddell, Maybee, Toronto.
Irwin & Jones, Toronto.
McLean, Wm. A., Guelph, Ont.
Newburn & Ambrose, Hamilton, Ont.
Tupper, Phippen & Tupper, Winnipeg.
Wilson, W. G., Napanee, Ont.

Machinery Supplies
Armstrong Bros. Tool Co., Chicago, Ill.
Canada Foundry Co., Toronto.
Canadian Fairbanks Co., Montreal and Toronto.
Jardine, A. B., & Co., Hespeler, Ont.
Kerr Engine Co., Walkerville, Ont.
Montreal Rolling Mills Co., Montreal.
Morrow MachineScrew Co., Ingersoll, Ont.
Penberthy Injector Co., Windsor.

Manufacturers' Agents.
Gibb, Alexander, Montreal.
Jenking, A. C., & Co., Montreal.

Metals.
Booth Copper Co., Toronto.
Canada Iron Furnace Co., Midland, Ont.
Canada Metal Co., Toronto.
Deseronto Iron Co., Deseronto, Ont.
Gibb, Alexander, Montreal.
Gilbertson, W., Pontardawe, Wales.
Hankin, F., Montreal.
Henderson, J. A., Montreal.
Ironside, Son & Co., London, Eng.
Jackson, C. F., & Co., Vancouver, B.C.
Johnston, Rd., Clapham & Morris, Manchester, Eng.
Kemp Mfg. Co., Toronto.
Leslie, A. C., & Co., Montreal.
Lewis, Samuel, & Co., Dudley, Eng.
London Rolling Mills Co., London, Ont.
Lysaght, John, Bristol, Eng.
Montreal Rolling Mills Co., Montreal.
Morton, B. K., & Co., Sheffield, Eng.
Nova Scotia Steel and Coal Co., New Glasgow, N.S.
Peck Rolling Mills Co., Montreal.
Samuel, Benjamin & Co., Toronto.
Saunders, Franklin & Co., Montreal.
Thompson, B. & S. H. & Co., Montreal.

Metal Lath.
Metallic Roofing Co., Toronto.
Pedlar People, Oshawa, Ont.

Metal Polish, Emery Cloth, etc.
Anglo-Canadian Supply Co., Toronto.
Solarine Company, Chicago.
Oakey, John, & Sons, London, Eng.

Metallic Window Screens.
Cutts, C. M., & Co., Toronto Junction.

Milk Cans and Trimmings.
Davidson, Thos., Mfg. Co., Montreal.
Kemp Mfg. Co., Toronto.
McClary Mfg. Co., London, Ont.
Wright, E. T., & Co., Hamilton, Ont.

Mops.
Tarbox Bros., Toronto.

Nails and Spikes.
Montreal Rolling Mills Co., Montreal.
Ontario Tack Co., Hamilton, Ont.
Peck Rolling Mills Co., Montreal.

Office Furniture.
Office Specialty Mfg. Co., Toronto.

Paints, Oils and Glass.
Berry Bros., Detroit and Walkerville.
Canada Paint Co., Montreal.
Consolidated Plate Glass Co., Toronto.
Dods, P. D., & Co., Montreal.
Henderson & Potts Co., Montreal.
Hobbs Mfg. Co., London, Ont.
Imperial Varnish and Color Co., Toronto.
Jamieson, R. C., & Co., Montreal.
Lewis, Rice & Son, Toronto.
Lucas, John, & Co., Philadelphia, Pa.
Luxfer Prism Co., Toronto.
McArthur, Corneille & Co., Montreal.
McCaskill, Dougall & Co., Montreal.
Montreal Rolling Mills Co., Montreal.
O-So-Ezy Mfg. Co, Montreal.
Queen City Oil Co., Toronto.
Ramsay & Son, Montreal.
Sherwin-Williams Co., Montreal.
Standard Paint and Varnish Works, Windsor, Ont.
St. George, H. E., London, Ont.
Thorne, R. E., Montreal.
White Lead Association of Canada, Montreal.
Winnipeg Paint and Glass Co., Winnipeg

Painters Tools and Supplies.
United Factories, Toronto.
Waggoner Ladder Co., London, Ont.

Perforated Sheet Metals.
Greening, B., Wire Co., Hamilton.

Plumbers' Tools and Supplies.
Canada Brass Rolling Mill, Toronto.
Canadian Fairbanks Co., Montreal.
Glauber Brass Co., Cleveland, Ohio.
Gies, Philip, Berlin, Ont.
Gurney Foundry Co., Toronto.
Jardine, A. B., & Co, Hespeler, Ont.
Jenkins Bros., Boston, Mass.
Mechanics' Supply Co., Quebec.
Morrison, Jas., Brass Mfg. Co., Toronto.
Naturo Co., Salem, N.J.
Page-Hersey Iron & Tube Co., Guelph.
Standard Ideal Sanitary Co., Port Hope,
Utica Drop Forge & Tool Co., New York.

Portland Cement.
Canadian Portland Cement Co., Toronto
Hanover Portland Cement Co., Hanover, Ont.
Hyde, F., & Co., Montreal.
Thompson, B. & S. H. & Co., Montreal.

Pottery.
Foster Pottery Co., Hamilton, Ont.

Poultry Netting.
Greening, B., wire Co., Hamilton, Ont.
Page Wire Fence Co., Walkerville, Ont.

Refrigerators.
Davidson, Thos., Mfg. Co., Montreal.
Ham & Nott Co., Brantford, Ont.
Sanderson-Harold Co., Paris, Ont.

Registers.
United States Register Co., Battle-Creek, Mich.

Roofing Supplies.
Jenking, A. C., & Co.. Montreal.
McArthur, Alex.. & Co., Montreal
Metal Shingle & Siding Co., Preston, Ont.
Metallic Roofing Co., Toronto.
Paterson Mfg. Co., Toronto & Montreal.
Pedlar People, Oshawa.
Taylor-Forbes Co., Guelph, Ont.

Saws.
Atkins, E. C., & Co., Indianapolis, Ind.
Disston, Henry, & Sons, Philadelphia, Pa.
Shurly & Dietrich, Galt, Ont.

Sap Buckets and Spouts.
Kemp Mfg. Co., Toronto.
McClary Mfg., Co., London, Ont.
Taylor-Forbes Co., Guelph, Ont.

Scales.
Canadian Fairbanks Co., Montreal.
New Warren Scale Co., Montreal.

Screen Doors and Windows.
Sanderson-Harold Co., Paris, Ont.

Screws, Nuts, Bolts.
Acme Lathe Products Co., Manchester
Bayliss, Jones & Bayliss, Wolverhampton, Eng.
Canada Foundry Co., Toronto.
Montreal Rolling Mills Co., Montreal.
Morrow, John, Machine Screw Co., Ingersoll, Ont.

Sewer Pipes.
Canadian Sewer Pipe Co., Hamilton
Hyde, F., & Co.. Montreal.

Shelf Boxes.
Bennett Mfg. Co., Pickering, Ont.

Shelf Brackets.
Atlas Mfg. Co., New Haven, Conn

Skates and Hockey Sticks.
Starr Mfg. Co., Dartmouth, N.S.

Stable Fixtures.
Greening, B., Wire Co., Hamilton, Ont.
Oneida Community Co., Niagara Falls, Ont.

Steel Rails.
Algoma Steel Co—Drummond, McCall & Co., Agents, Montreal.
Jackson, C. F., & Co., Vancouver, B.C.
Morton, B. K., & Co., Sheffield, Eng.
Nova Scotia Steel & Coal Co., New Glasgow, N.S.

Storage Warehouse.
Mackenzie Bros., Winnipeg.

Store Lighting.
Auer Light Co., Montreal.

Stoves and Tinware, Radiators, Furnaces, etc.
Canadian Heating & Ventilating Co. Owen Sound.
Davidson, Thos., Mfg. Co., Montreal.
Gies, P., Berlin, Ont.
Gurney Foundry Co., Toronto.
Kemp Mnfg. Co., Toronto.
McClary Mfg. Co., London.
Wright, E. T., & Co., Hamilton.

Tacks.
Ontario Tack Co., Hamilton.
Peck Rolling Mills Co., Montreal.

Traps.
Mast, J. M., Mfg. Co., Lititz, Pa.

Typewriters and Supplies.
United Typewriter Co., Montreal.

Wall Paper.
Stauntons Limited, Toronto.

Washing Machines, etc
Boss Washing Machine Co., Cincinnati, O.
Connor, J. H., & Son, Ottawa.
Dowswell Mfg. Co., Hamilton, Ont.
Taylor Forbes Co., Guelph, Ont.

Wholesale Hardware.
Birkett, Thos., & Sons Co., Ottawa.
Frothingham & Workman, Montreal.
Howland, H. S., Sons & Co., Toronto.
Kennedy Hardware Co., Toronto.
Lewis Bros. & Co., Montreal.
Lewis, Rice, & Son, Toronto.

Window and Sidewalk Prisms.
Hobbs Mfg. Co., London, Ont.
Luxfer Prism Co., Toronto.

Wire Springs.
Henderson, J. A., Montreal.
Wallace-Barnes Co., Bristol, Conn.

Wire, Wire Rope, Cow Ties, Fencing Tools, etc.
American Steel and Wire Co., New York, Montreal, Chicago.
Bayliss, Jones & Bayliss, Wolverhampton, Eng.
Canadian Steel & Wire Co., Hamilton.
Dennis Wire and Iron Co., London, Ont.
Dominion Wire Mnfg. Co., Montreal.
Greening, B., Wire Co., Hamilton.
Ironside, Son & Co., London, Eng.
McGregor - Banwell Fence Co., Walkerville, Ont.
Montreal Rolling Mills Co., Montreal.
Oneida Community, Niagara Falls.
Owen Sound Wire Fence Co., Owen Sound
Page Wire Fence Co., Walkerville, Ont.
Walter, E. F. & Co., Montreal.
Western Wire & Nail Co., London, Ont.
Wilcox Mfg. Co., London, Ont.

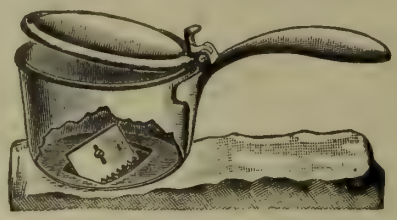
Woodenware.
Bennet Mfg. Co., Pickering, Ont.
Taylor-Forbes Co., Guelph, Ont.
United Factories, Toronto.
Waggoner Ladder Co., London, Ont.

Wrapping Papers.
Canada Paper Co., Toronto.
McArthur, Alex., & Co., Montreal.

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ICE SHREDDERS

For Shaving Ice, Coarse or Fine.



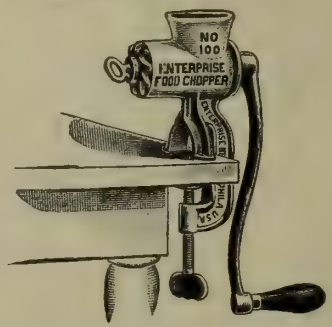
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No. 33, Tinned, -	$6.00
No. 34, Nickeled, -	15.00

LAWN SPRINKLER



No. 1, - - $3.50

FOOD CHOPPERS



No. 100 -	$1.50
No. 300 -	2.25

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45 Sizes and Styles for Hand, Steam and Electric Power.



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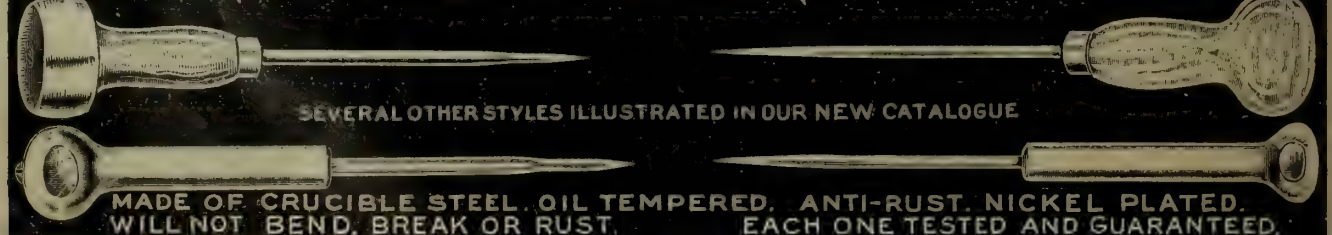
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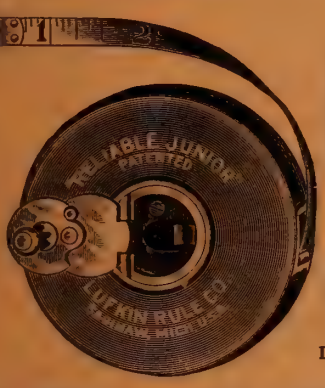
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Bars in Flats, Rounds, Squares, Ovals, Half-Ovals, Half-Rounds and Bands. Also Wrought Washers.
GOOD QUALITY. PROMPT SHIPMENT.

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Steel, Metallic, Linen, Pocket, Ass Skin, Pat. Leather, Bend Leather, Etc.

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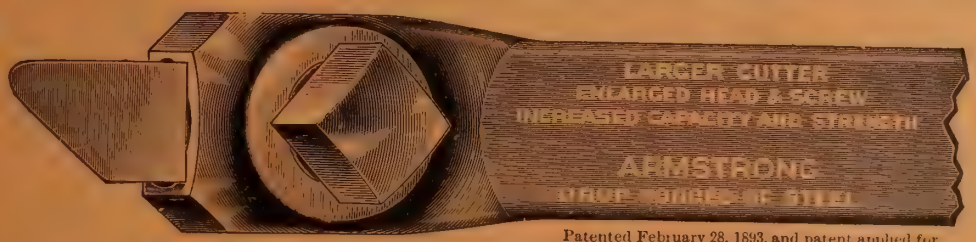
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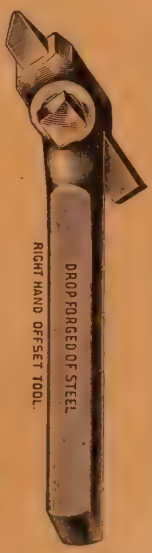
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A tire easily put on and taken off with an ordinary wrench. Simple in construction—nothing to get out of order.

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A Weekly Newspaper devoted to the Hardware, Metal, Heating and Plumbing Trades in Canada.

VOL. XVII. MONTREAL AND TORONTO, APRIL 29, 1905 NO. 17

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THE INVICTA
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Taylor-Forbes Company

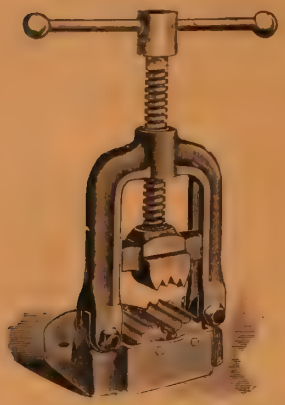
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Classified List of Advertisements on Page 63.

Plumbers' Supplies



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Get Our Prices
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Valves, Fittings, Etc.



PIPE VISES

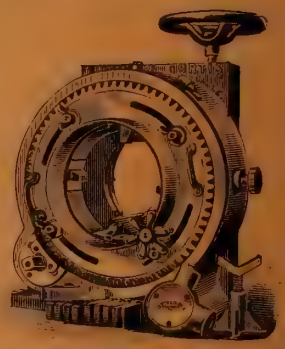


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PIPE CUTTERS

all 8. RETURNED APR 29 1905

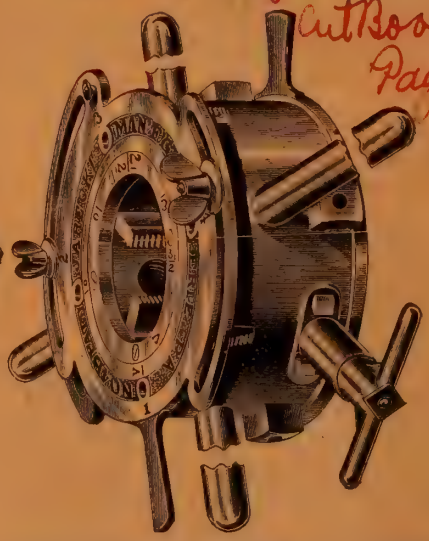


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Cut Book 34 Page 76 Encl



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PIPE STOCK AND DIES, ALL SIZES



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Made from ¼ in. to 2 ins.

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Hardware Merchants

and

General Store Keepers

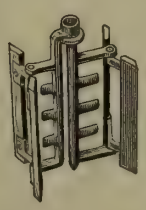
we solicit a call or inquiry.

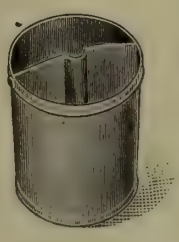
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"AMERICAN" (2 in 1) TWIN FREEZERS

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ASK YOUR JOBBER FOR THEM.
SEND FOR NEW FREEZER BOOK.

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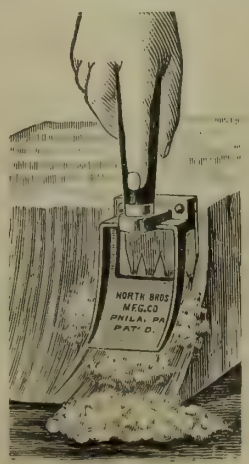
"LIGHTNING" "GEM" "BLIZZARD"

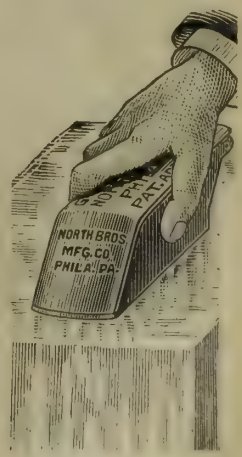


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THE ONLY FREEZERS MADE having Cedar Pails with Electric Welded Wire Hoops Cans of Heavy Tin with Drawn Steel Bottoms, Automatic Tin Scrapers.

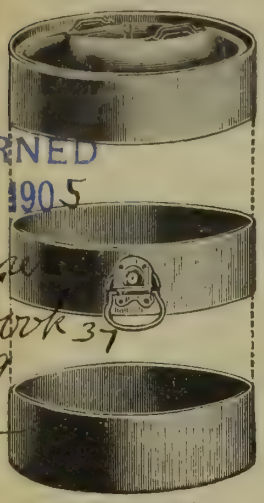






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Davidson's Milk Can Trimmings



Sizes 10 to 40 gal.

IN COMPLETE SETS

"BROAD HOOP" Pattern—composed of the following: 1 Broad Hoop Bottom, 1 Cover, 1 Centre Hoop 6 in. wide, 20 gauge, 1 Broad Top Hoop, 1 pair Cover Handles, 1 pair Side Handles.

and Milk Cans with Broad Hoop.

PATENT ROLL-RIM BOTTOMS

Are handled by the most progressive dealers throughout Canada and have always given satisfaction both to the dealer and his customers.

Our Broad-Hoop Bottom has all the advantages of a seamless bottom without the weakness that the spinning entails.

BOTTOMS are very easily sweated on, using very little solder.

BOTTOMS are made concave and drain to the centre, and are therefore easy to wash out and keep clean. Will not corrode.

TOP BANDS are shouldered, and all BANDS have retinned edges.

We have in stock the best quality TINNED IRON, which we can supply at lowest market prices.



Heavy Rolled Edges make our PATENT BOTTOMS doubly durable and waggon and factory floor protectors.

The Thos. Davidson M'f'g Co., Limited
MONTREAL.

Zinc Spelter

We are sole agents in Canada for the celebrated "R. W. & Co." brand virgin spelter, and solicit enquiries for shipment from stock or direct import.

M. & L. Samuel, Benjamin & Co.

503 Temple Building - TORONTO.

English House—16 Philpot Lane, LONDON, ENGLAND

MERELY A SUGGESTION

YOU know that the demand for horse pokes grows with the grass. Then, if you wish your sales to grow at the same time don't let the grass get the start of you.



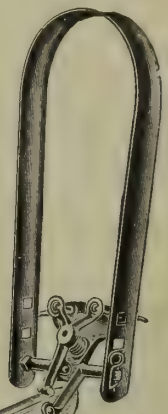
Champion Climax



Stock Bell



Dictator

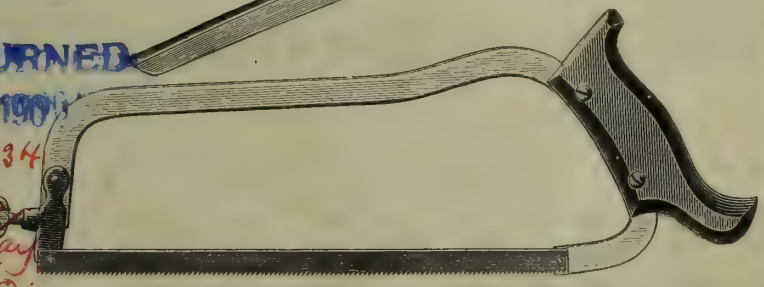


Kirk's Metallic

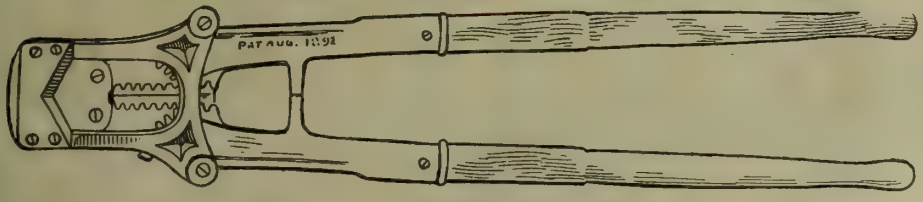


Tyler's Safety Calf Weaner

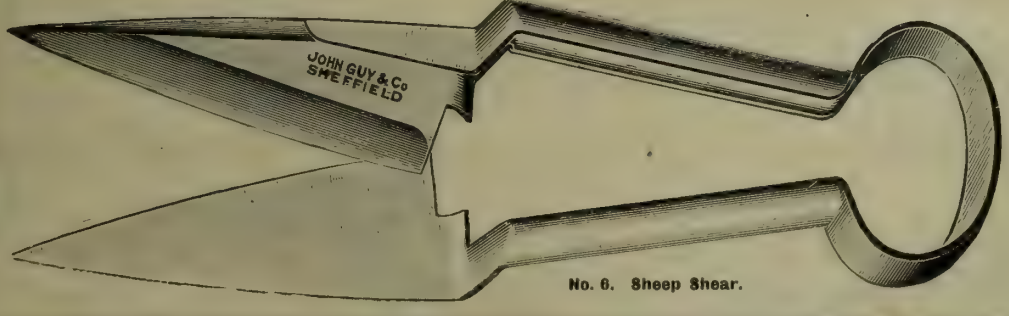
10
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page 12
Bradley



Star Dehorning Saw



Keystone Dehorner



No. 6. Sheep Shear.



Hill's Hog Ringer

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LEWIS BROS. & CO.

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Importers and Distributors.

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"TRUE BRAND" CUTLERY

POCKET KNIVES
SCISSORS and
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REGISTERED TRUE TRADE MARK

POCKET KNIVES
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E. F. WALTER & CO., 166 and 168 McGILL STREET MONTREAL



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PRESSED, STAMPED, and MACHINE-MADE

ENAMELLED, TINNED, GALVANIZED and JAPANNED

We manufacture every description of Hollow-ware and we guarantee that every piece is made wholly on our own premises. Our average weekly capacity, is over 700,000 pieces, of Tinned, Galvanized and Enamelled ware. Our Enamelled ware is of superior durability and finish, and is guaranteed free from any poisonous substances.

Let us have your name for our illustrated lists

The Welsh Tinplate & Metal Stamping Co., Ltd.

LLANELLY, WALES

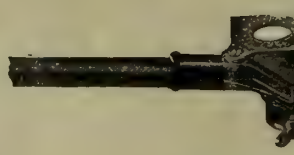
A FEW OF OUR SPECIALTIES

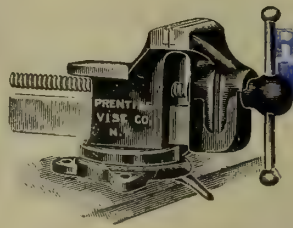
JUST TO REMIND YOU

PRICES RIGHT

PROMPT SHIPMENTS

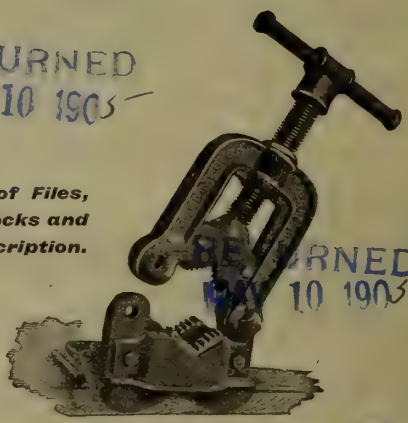


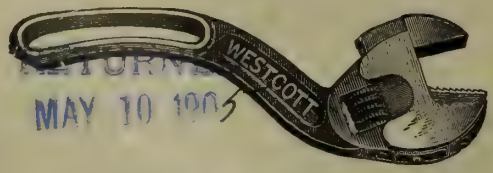


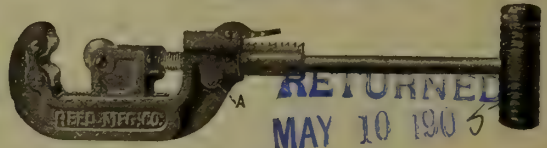


We carry a large stock of Files, Drills, Vises, Wrenches, Stocks and Dies and Tools of every description.

Send Us Your Next Order.









THE CANADIAN FAIRBANKS CO. LIMITED

MONTREAL TORONTO VANCOUVER WINNIPEG

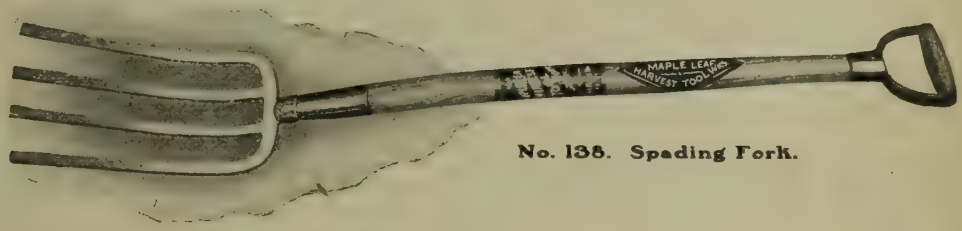
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Have You Seen Them ?

For Beauty, Finish and Quality, the "Maple Leaf" Harvest Tools are unexcelled.



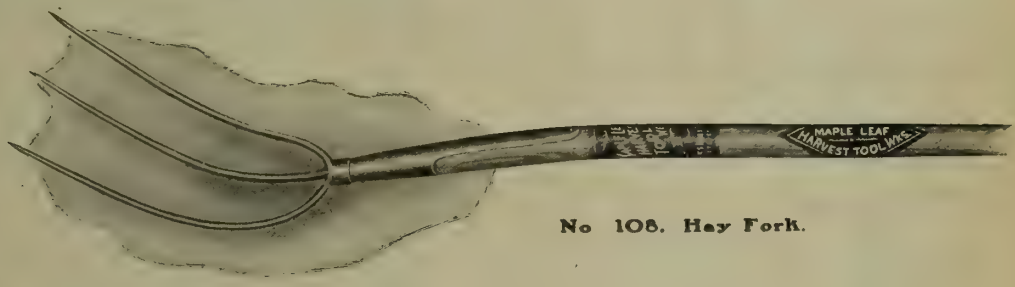
No. 122. Manure Fork.



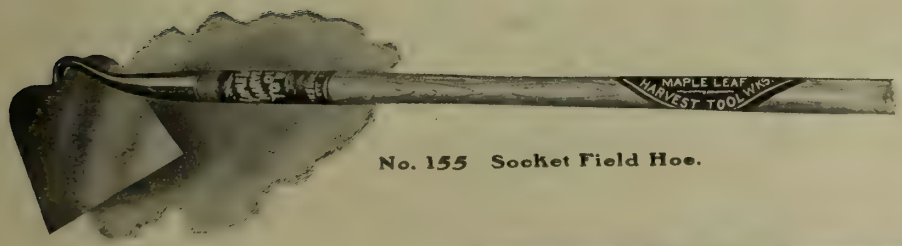
No. 138. Spading Fork.



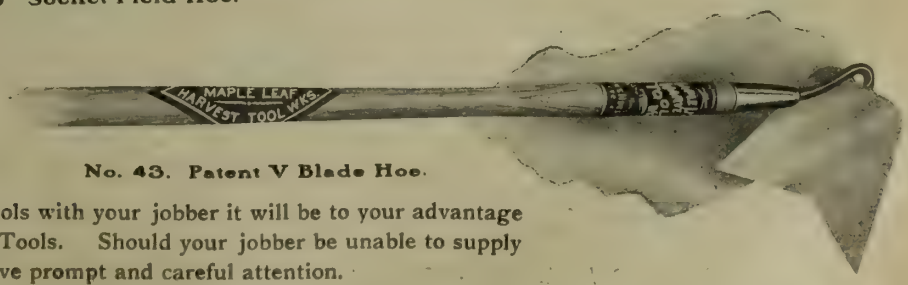
No. 243. Beet Fork.



No 108. Hay Fork.



No. 155 Socket Field Hoe.

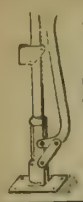


No. 43. Patent V Blade Hoe.

TO THE HARDWARE TRADE—

When placing your order for harvest tools with your jobber it will be to your advantage to **specify** for the **"Maple Leaf"** Harvest Tools. Should your jobber be unable to supply them, send your order to us and it will receive prompt and careful attention.

The Maple Leaf Harvest Tool Co., Limited, Tillsonburg, Ont.



COVERT MFG. CO.
Troy, N.Y
Steel Carriage and Wagon Jacks
Harness Snaps, Chain, Rope and Web Goods, etc.
SOLD BY ALL LEADING JOBBERS.

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Galvanized Sheets

Made by
J. Summers & Sons, Ltd.
STALYBRIDGE, ENG.
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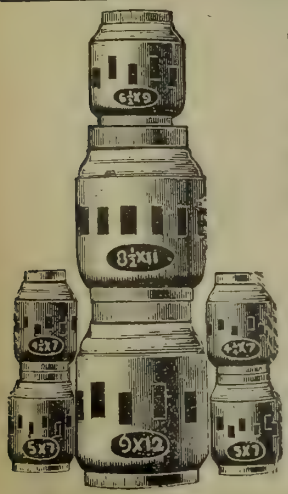
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HERCULES
Sash Cord.

Star Brand Cotton Rope
Star Brand Cotton Clothes Lines
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For Sale by all Wholesale Dealers.



The Sarnia Hub, Spoke and Bent Goods Mfg. Company.

Sarnia, Ont.

We are prepared to fill any orders for

Heavy Wagon, Sleigh, Buggy, and Cutter Stock.

We make a specialty of heavy stock and can fill orders promptly. Made from the best of oak and hickory as wt carry a large stock of lumber and can make any sizes thae may be required. We make it a point to fill orders promptly.

If you are in need of anything in our line we will be pleased to hear from you and we will give it our prompt attention.

J. S. LOUGHEAD & SON, Sarnia, Ont.



Steel Frame Support.

DAVID MAXWELL & SONS
ST. MARYS, ONT., CANADA.

"Maxwell Favorite Churn."

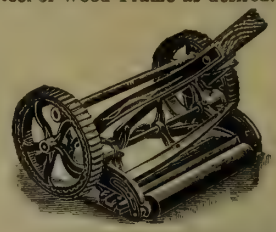
PATENTED FEATURES: Improved Steel Stand, Roller Bearings, and Foot and Hand Lever Drive, and Detachable Driving Link. Improved for season of 1904. Steel or Wood Frame as desired.

Lawn Mowers.

High and Low Wheels, from 12 in. to 20 in. widths. Cold Rolled Steel Shafting, Crucible Steel Knives and Cutting Plate.

If your Wholesale House does not offer you these articles

SEND DIRECT TO US.



MAXWELL MOWER

8-in. Low Wheel.



Wheelbarrows.

In Four Different Sizes.

Ask for the J.C.M. Brand of Canadas

Galvanized— 3 Crown, Black half-polished— 1 Crown.

Fisrt-class makes at low prices.

APPLY TO

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MANCHESTER, ENGLAND



SILENT SALESMAN

Given gratis with an order for eight half-dozens Pen Knives as illustrated above.

May be ordered through all leading wholesale hardware firms.

RETURNED
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To Montreal
Cut Book 32
Page 53

RETURNED
AUG 26 1905
To Owner
Cat Book 39
Page 30

MADE IN CANADA



LAWN MOWERS

With Grass Boxes

will be appreciated by your customers if brought to their notice.

The Grass Boxes are of light-weight sheet steel and add practically nothing to the labor of handling the machine, while rendering efficient service in collecting and removing the cut grass.

Brockville Lawn Mowers are now in their *THIRTIETH SEASON*, and have never failed to give complete satisfaction to all purchasers.

We have them with Ball Bearings and without, High and Low Wheels, all widths of cuts, all grades of finish. The standard for easy running, durability and handsome appearance.

Order direct from the makers

THE JAMES SMART MFG. CO., LIMITED

BROCKVILLE, ONT., and WINNIPEG, MAN.



BROWN'S PATENT STEEL WIRE CHAIN

If you are interested in Chains examine carefully the perfect mechanical construction of the Brown's. It is the most perfect chain made. We make it in 13 sizes. We use it exclusively in all our Halter, Dog, Tie-out, Cattle, Trace Chains, etc. You will make no mistake in handling our line exclusively.

The B. Greening Wire Co.
Limited

HAMILTON, ONT. MONTREAL, QUE.

Dillon Hinge-Stay —Fence—



Don't let YOUR farmer customer go to the OTHER Hardware for his fencing because you have none. If so, he is likely to get his Stove, Harvest Tools and other goods there, too.

Put in a small attractive stock of our 1905 DILLON fence ing, keep it where it can be seen and it will attract farm custom Good margin in it for you, too.

OWEN SOUND WIRE FENCE CO., LIMITED,

Owen Sound, Ont.

MESSRS. CAVERHILL, LEARMONT & CO.,

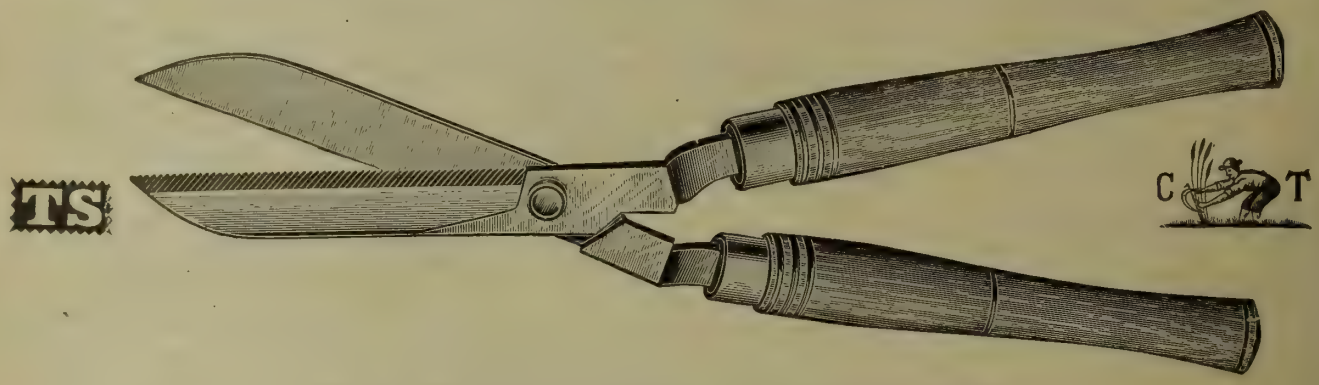
(Eastern and Western Agents,) Montreal and Winnipeg.

THEY LOOK ALIKE

But one is CHALK and the other is CHEESE.

It is the same with GARDEN SHEARS, some are made out of ROLLED steel and may cost you a little less MONEY, but they take it out of you in REPUTATION.

OURS are made of solid Steel of a SPECIALLY selected quality and are FORGED by a new IMPROVED process of our OWN by the most COMPETENT workmen.



WARRANTED "HAND FORGED," EVERY PAIR STAMPED

Thos. Staniforth & Co., - Hackenthorpe, Sheffield, Eng.

Ask your jobber for them or write JAS. S. PARKES, 446-448 St. Paul St., Montreal, and he will tell you where to get them.

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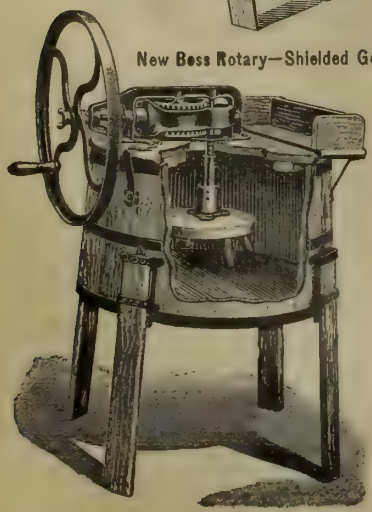


The World's Most Famous WASHERS

1904 AUTOMATIC



New Boss Rotary—Shielded Gears



Made by the largest Washing Machine Factory in the world. Capacity, 600 machines per day.



Exclusive Agencies Given

Write at once and secure agency, thus protecting your profits by avoiding competition. Address

WALTER WOODS & CO.

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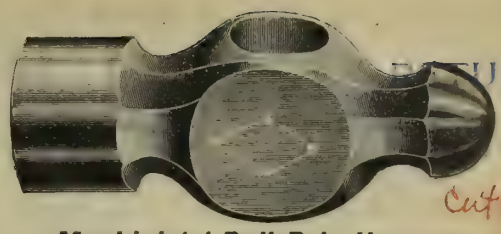
STRIKING OBJECTS

with hammers that chip, fly to pieces or batter is unprofitable business. You should offer your customers the W. & B. brand of heavy hammers.

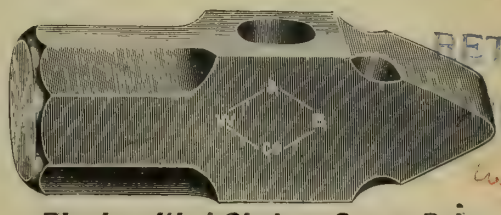
They never fail.

They are forged from the best brands of hammer steel, correctly shaped and finely finished.

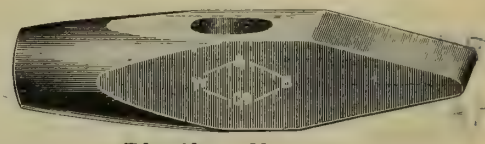
Ask for prices or see our travellers.



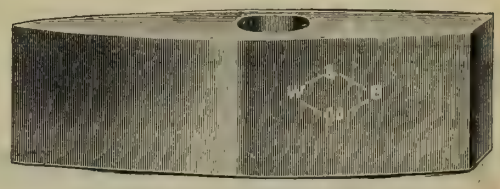
Machinists' Ball-Pein Hammer



Blacksmiths' Sledge, Cross-Pein



Riveting Hammer



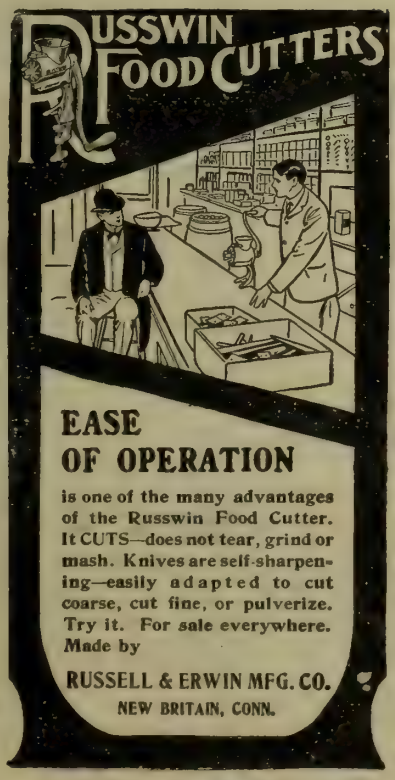
Spalling or Stone Hammer

Frothingham & Workman, Limited

Wholesale Hardware and Iron Merchants

MONTREAL, Canada

FOR 96 YEARS SELLERS OF HARDWARE.



—FOR SALE BY—

The KENNEDY HARDWARE Co., Limited

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Illustration shows the

NIAGARA WIRE LINK

OPEN RING TYPE

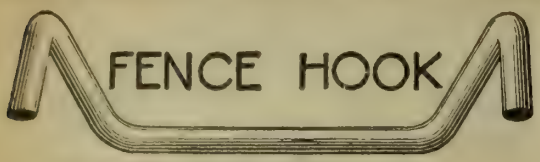
Also made in CLOSED RING, THREE CHAIN and DOMINION (or "Short") TYPES.

Oneida Community Cow Ties can be had of all the leading jobbers. We invite correspondence where any difficulty is experienced in obtaining our goods.

ONEIDA COMMUNITY, Limited

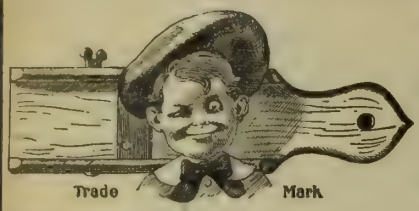
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GALVANIZED FENCE HOOK FOR FASTENING WOODEN PICKET ON WIRE FENCES



WIRE NAILS, COILED SPRING, BARB and PLAIN FENCE WIRE, OILED and ANNEALED, CLOTHES LINE WIRE, STAPLES, etc.

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"LITTLE SHAVER"

A handy kitchen utensil for scraping chocolate, slicing small fruits and vegetables. Sells well at all seasons because always useful. Made of hardwood. Blade of finely tempered steel.

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43 and 44 Percival Street, · London, England
Contractors to H. M. Government and the Principal English Sheet and Plate Glass Works.
ALSO Established 1815
Lead Vices, Carbon Tools, Etc., Etc.,



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Ahead of all others in **quality** and **workmanship**. If **sparks** of **fine quality**, **set by experts**, are what you require, buy Diamonds of **A. Shaw & Son's** make.

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388 ST. PAUL ST., MONTREAL

CELEBRATED HEINISCH SHEARS

Tailors' Shears,
Trimmers' Shears,
Tinners' Snips, etc.



ACKNOWLEDGED THE BEST.

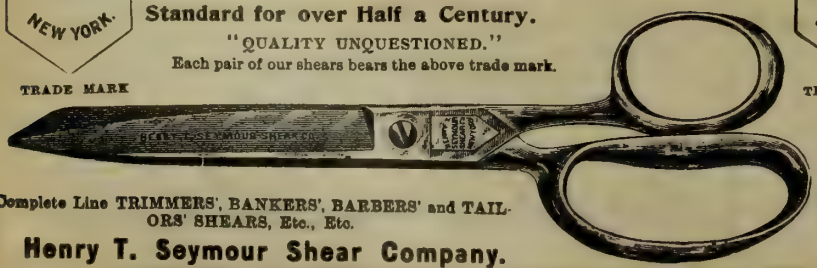
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HAVE BEEN THE
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"QUALITY UNQUESTIONED."
Each pair of our shears bears the above trade mark.

HENRY T. SEYMOUR SHEAR CO. NEW YORK. TRADE MARK



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Complete Line TRIMMERS', BANKERS', BARBERS' and TAILORS' SHEARS, Etc., Etc.

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WIEBUSCH & HILGER, Limited, NEW YORK, Sole Agents.



Mr. Dealer

Do you know there is a big demand for the

IDEAL SQUARE STEAM COOKER?

There are also big profits for you.

Ask your jobber, or write

J. A. Ross
Sole Canadian Agent
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A first class agent to represent a Sheffield house of high standing, in ***silver*** and ***plated hollow-ware, spoons*** and ***forks, plated*** and ***silver cutlery, steel cutlery, etc.***

To one who has a good connection, liberal terms will be given. None but applications of the highest class will be considered. Communications will be treated in strict confidence. Address, stating age, all particulars, salary required, to

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Binder Twine

BLUE RIBBON, 650 ft. to the lb.
REDCAP, - 600 ft. to the lb.
TIGER, - - 550 ft. to the lb.
STANDARD, 500 ft. to the lb.
GOLDEN CROWN, 500 ft. to the lb.

Still the Favorites of both FARMERS and DEALERS.

If **SHEAF BRAND** is preferred to any of the above, we are prepared to supply it, as we are the Proprietors of this Trade Mark.

Nothing but Select Fibre Used.
Skilled Canadian Labor.

Our Twine is not only evenly spun, but is WELL BALLED. This is very important, prevents tangling in Twine Box
Write for prices.

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Mills—MONTREAL and HALIFAX. MONTREAL.

BRANCHES:

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The Old Engineer

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THE CANADIAN RUBBER CO. OF MONTREAL. TRADE MARK

"—It's right. Treats you well. Saves your time. Keeps your Plant running. Makes your work easy. Never lets you down.

"'RED STAR'S' MY PACKING. Have tried the others. Sure."

PACKING is one of our banner lines, but we sell

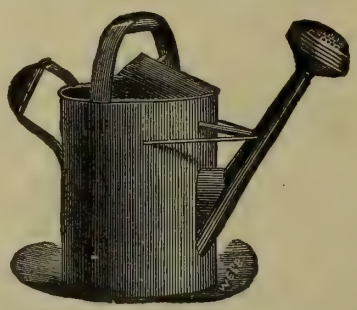
Everything in Rubber

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Watering Pots

Japanned and Galvanized
Strong and Durable
Removable Roses

Water Coolers

Nickel-Plated Faucets
Beautifully Decorated

Each cooler packed separately in a strong box to ensure against damage in transit.

Is your stock complete with these seasonable goods?

WE CAN SHIP PROMPTLY

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58 McGill St., Montreal, Que.

ONTARIO MASTER PLUMBERS' CONVENTION

GUELPH proved itself to be a popular convention city on Good Friday, when the third annual gathering of the Master Plumbers' Association of Ontario took place in the Royal City. The convention was the largest and most important in the history of the Association, and in point of numbers eclipsed any previous meeting, ninety-five delegates being in attendance as against sixty-seven, the former record.

All parts of Ontario were represented with the exception of Algoma and New Ontario, the representation being, of course, largest from Western Ontario where the plumbing fraternity are best organized. Twenty-five cities and towns sent delegates and telegrams were received from Chatham and Owen Sound, delegates being unavoidably detained at the last moment. The Association has members in seventeen other towns, some of which were not represented owing to the illness of members.



Wm. Mansell, Toronto, Past President.

The arrangements made by the Guelph Association could not have been improved upon and the success of the gathering is largely due to the energetic work of Harry Mahoney and the other members of the local association. The hospitality they extended was appreciated by all and the gathering at Guelph will be long remembered by those who attended.

LIST OF DELEGATES.

Alliston—W. B. Clifton.

Brantford—T. A. Cowan, Chas. Taylor.

Barrie—G. H. Ling, J. H. Neelands.

Berlin—Philip Gies, Peter Hymmen, H. L. Hymmen, A. Sacks, H. Wolfhardt.

Galt—H. Dakin, T. Lockhart, B. Bennett, James Scott, T. Norris.

Guelph—H. Mahoney, R. Mahoney, Fred Smith, Wm. Stevenson, A. Malcolm, E. B. Welsby.

Hamilton—W. J. Clark, G. C. Ellicott, John Ellicott, H. W. Morley, Stephen Mellon, A. Rogers, W. D. Smith, J. S. Kennedy, J. H. Stewart, W. J. Walsh, Isaac Walsh, T. H. Davies.

Listowel—W. J. Sarvis.

Kincardine—P. Shiells.

London—R. J. Haslett, W. J. Green, C. F. Needham, T. L. Partridge, E. H. Russell, Wm. Skelly, Wm. Young, L. Robb, B. Noble.

Midland—T. J. Campbell.

Niagara Falls—C. E. Cole, Wm. Crawford.

Orillia—H. T. Andrews, T. Phillips.

Ottawa—H. A. Knox, John McKinley.

Paris—J. Glennister.

Strathroy—A. Stoner.

Stratford—A. Smith.

St. Thomas—W. Cadman, F. Cook, J. E. Stott.

Southampton—William Johns.

Sarnia—Frank Goodwin, Alex. Joss, D. Kerr.

St. Catharines—S. P. Gourlay, A. Riddell.

Toronto—K. J. Allison, Fred Armstrong, C. H. Beavis, N. Blumburgh, Geo. H. Cooper, J. W. Erwood, R. W. Harrison, C. Robertson, W. B. Inwood, P. Jessimane, L. LeGrow, E. Larter, G. A. McDonald, J. I. Matthews, Wm. Mansell, C. E. Pickard, J. H. Wilson, Robt. Ross, C. Wallis, S. Wright, D. Morgan, W. H. Meredith.

Waterloo—Wm. Conrad, H. Liphardt.

Windsor—James Pennington.

Woodstock—J. Sheridan.

MORNING AND AFTERNOON SESSIONS

The Association met in Castro Hall, Opera House Block, and after the report of the Credential Committee, composed of C. E. Pickard, Toronto; S. P. Gourlay, St. Catharines, and B. Noble, London, was received, the report of the Executive Committee, which had met the previous evening in Guelph, was taken up for discussion. It was shown that the membership was steadily increasing and that the cash receipts for 1904 had been double that of 1903. An audit committee, composed of H. A. Knox, Ottawa; C. E. Pickard, Toronto, and W. D. Smith, Hamilton, was chosen to examine the financial statement. F. Smith, Guelph, was elected sergeant-at-arms.

Ald. Struthers appeared before the convention and extended the civic welcome, offering the delegates a free trip around the city on the municipally-owned street railway, to see the municipally-owned waterworks, gas and electric lighting plants, the city-owned Guelph Junction Railway, and the Government-owned Agricultural College and Model Farm.

One of the main features of the convention was the appointment of a sanitary committee to draft a sanitary by-law to be presented at the next semi-annual meeting of the Association, and after receiving the endorsement of the convention, to be presented to the various municipalities with a view to having it placed in operation as a uniform sanitary by-law for the province.



W. J. Walsh, Hamilton, the new President.

The question of organization was also discussed and a strong committee chosen to push with energy the enrolment of new members in the eastern part of the province.

Toronto was selected as the meeting place for the semi-annual convention on Thanksgiving Day and the matter of sending fifteen delegates to the national gathering in Winnipeg next July was

left in the hands of the local associations.

Representatives of the supply houses were received during the afternoon session and fraternal greetings exchanged. Topics of mutual interest were threshed out and where possible joint action will be taken.

ELECTION OF OFFICERS.

The annual election of officers resulted in a thorough endorsement of the aggressive policy of the retiring officers, practically every one being re-elected. The retiring president, Wm. Mansell, of Toronto, asked the convention to allow him to retire and Vice-President Walsh was chosen to succeed him. The new officers are:

Past President—Wm. Mansell, Toronto.

President—W. J. Walsh, Hamilton.

Vice-President — Harry Mahoney, Guelph.

Treasurer—J. H. Wilson, Toronto.

Financial Secretary—T. H. Davies, Hamilton.

Corresponding Secretary—W. H. Meredith, Toronto.

Executive Committee—E. H. Russell, London; H. A. Knox, Ottawa; A. Riddell, St. Catharines, and the officers.

Organization Committee—Wm. Mansell, J. H. Wilson, R. W. Harrison, of Toronto, and W. J. Walsh, Hamilton.

Sanitary Committee—Fred Armstrong, L. LeGrow, J. H. Wilson and G. H. Cooper, of Toronto; B. Noble, London; H. A. Knox, Ottawa, and W. Stevenson, Guelph.

Delegates to National Plumbers' Convention at Atlanta, Georgia, in June—W. J. Walsh, Hamilton; Fred Armstrong, Toronto.

Delegates to Master Steamfitters' Association at Atlantic City, N.J., in June—B. Noble, London, and John McKinley, Ottawa.



Harry Mahoney, Guelph, elected Vice-President

The Banquet.

So large was the attendance that it was found impossible to secure a large enough dining-room to accommodate the invited guests, fully 150 sitting down to participate in what proved to be the crowning event of the most successful convention in the history of the plumbers' organization in Canada. Many were unable to secure seats, and a second table was spread.

Harry Mahoney presided and proved himself to be a prince of toastmasters. At his right hand sat Secretary Meredith, ever on the alert to spring some sensation and add to the enjoyment of the banqueters. Occupying prominent



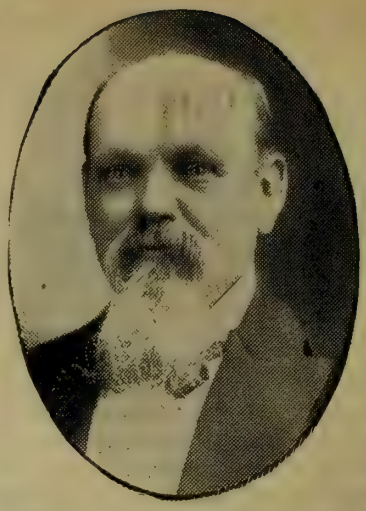
W. H. Meredith, Toronto, re-elected Secretary.

seats at the head of the table were many representatives of the supply houses and guests representing the Dominion and Ontario Governments and the Guelph City Council.

The toasts were interspersed with music and songs by talent from Toronto, Hamilton and Guelph, the social side being made a leading feature of the event. The menu was very elaborate, and full justice was done it by those participating.

"The King" brought the banqueters to their feet to join in singing the National Anthem. Following this came the toast to "The Dominion Parliament and Ontario Legislature," which was responded to by H. Guthrie, M.P., and J. P. Downey, M.P.P.

Mr. Guthrie said he did not think the toast would have been on the list if it were not that it provided an excuse for another drink. He took advantage of



Robert Ross, Toronto, President National Association.

the occasion, however, to give a brief historical sketch of the development of our country from the time that French government was discarded 146 years ago to the present day, when two new provinces are being ushered into the sisterhood of provinces, closing an instructive and eloquent address with the peroration: "Long live Canada, not as a free State, not as an annexed State, but under the British institutions we now enjoy."

Mr. Downey was not up to his usual form, having arisen from a sick bed to participate in the repast. He opened by quoting Depew's words, "Demosthanes is dead, Cicero is dead, and I am not feeling very well myself." Congratulations were tendered the Ontario Association and the local organization on the success of the day, and attention was drawn to the industrial advantages and municipal ownership record of Guelph. Mr. Downey said plumbers were like doctors—the people were glad to see them come and glad to see them go. As a parody on Sir Walter Scott we might say to the plumber:

"A burst takes place somehow,
And we explore the cellar with a scow,
A ministering angel thou."

WIRE NAILS
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Prompt Shipment

The ONTARIO TACK CO.
Limited.
HAMILTON, ONT.

The toast, "Our Guests," proposed by A. Malcolm, of the Guelph Association, brought President Mansell and Secretary Meredith to their feet to respond. Mr. Mansell said the Guelph organization, composed of only half-a-dozen members, had taken the wind out of the sails of all other cities, and he was glad to be able to do honor to them. The gathering was a fitting celebration of the Association's third birthday.

Secretary Meredith said he was too full for utterance. When the invitation came from the Royal City it was asked if Guelph was on the map. The greatest doubting Thomas had found that it was. There had been meetings in many cities, but this was the crowning success of all. For eight years he had worked side by side with President Mansell, and it is with regret that the latter had been forced to retire from the front firing line of the organization. Canada is the greatest country the sun ever rose upon, and if the committee succeeded in securing legislation for a uniform sanitary by-law the plumbers would aid in making it even grander and healthier.

Alderman Struthers replied to the toast of the "Mayor and Corporation" and Mr. W. Mahoney to that of the "Architects," the latter being described by R. W. Harrison as the men who draw pretty pictures for the plumbers to try to duplicate.

PRESENTATION TO PAST PRESIDENT.

At this stage Secretary Meredith rose and recalled the event of a year ago, when President Mansell had been caned at the Hamilton convention. It was with general regret that the members had learned of his determination to retire at this time, and a committee had been appointed to secure some token which would in some slight measure express their appreciation of Mr. Mansell's eight years of official work for the association. The committee had delegated the task to him, and he now had pleasure in presenting Mr. Mansell with a chair in which to take things easy in future. Mr. Meredith held aloft a small baby's chair with a sanitary seat, and the joke was thoroughly appreciated by the banqueters. Mr. Mansell's feelings were soon relieved, however, as another chair was forthcoming, a beautiful leather library chair. The retiring president was visibly moved when responding, stating that he had been in doubt as to whether the delegates had thought him an infant or in his second childhood. He would pass the baby chair on to Chairman Mahoney with the hope that he would soon have occasion to bring it into use. Business calls had made it necessary for him to retire from the presidency, but he would still give the Association a share of his time, as his heart was in the work.

FRED. ARMSTRONG'S ELOQUENCE.

Fred Armstrong proposed the toast of the "Manufacturers and Supply Houses" in eloquent language, giving the supply men credit for encouraging the plumber of to-day to have his shop up-to-date, with windows clean, floors swept, ceilings clear of cobwebs, roll-top desks in the offices, and handsome lavatories in the windows for display. The supply houses had been loyal in aiding the master plumber, and he trusted they would long continue to travel the paths of peace toward prosperity. The Master Plumbers' Association had been made stronger by the two pillars supporting the archway representing the supply men and the journeymen, the arch being capped with a horseshoe on the top. Shall the master plumbers walk the paths towards prosperity alone? Sir Wilfrid Laurier had referred to Ontario as Canada's strong right arm. The supply houses were the Association's strong right arm, and all would join in the hope that no cloud would arise to dim the azure sky.

Mr. J. M. Taylor, of the Taylor-Forbes Co., received an ovation on rising to reply. He endorsed the sentiments expressed as regards the benefits of association, and Mr. P. McMichael, of the Dominion Radiator Co., followed by announcing that it was the intention of the manufacturers to give unswerving loyalty to the associations.

Messrs. C. Near and C. L. Dunbar, of the Page-Hersey Co., also replied to



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Shingle Insurance is a profit paying department to add to your paint business. Insure shingled roofs and sidings—not against fire—but against decay. The use of

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PRESERVATIVE SHINGLE STAINS
(Made with Creosote)

is the best insurance policy against shingle decay.

In *Preservative Shingle Stains,* Creosote, the best wood preservative, is combined with coloring pigments. Shingle decay is thus prevented and an artistic finish given at the same time.

Our long experience in paint manufacturing has enabled us to make a most satisfactory Shingle Stain, durable in color and wear, desirable and practical in every way.

You should sell *Preservative Shingle Stains* and keep in line with modern demands. Send for samples on wood—twenty three handsome shades.

THE SHERWIN-WILLIAMS CO.
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this toast, the former quoting statistics to show the value of the manufacturing industry to Canada, while the latter likened the plumbers to his own profession, the lawyers, and congratulated the Association upon having two such fine orators in its ranks as Messrs. Meredith and Armstrong.

Mr. H. W. Anthes, of the Toronto Foundry Co., was called upon, but he excused himself and pleased those present by offering as a substitute a song by Mr. L. L. Anthes, who ably rendered "My Wild Irish Rose," the audience joining in the chorus.

"Sister Associations" was replied to by the new President; W. J. Walsh, of Hamilton; E. Russell, of London; and Robert Ross, president of the national association. All spoke encouragingly of the work of the associations in the various districts, and united in expressing their desire to make the coming national convention in Winnipeg a similar success.

TRADE ORGANIZATIONS AND TRADE NEWSPAPERS.

"The Press" brought Messrs. Stanley Dancey, city editor of the



Secretary Meredith Making a Presentation to the Waitresses.

Guelph Herald, and Weston Wrigley, editor of Hardware and Metal, to their feet, the former speaking eloquently as to the value to the country of the daily press, free from "yellow" journalism and corporate influence. Mr. Wrigley congratulated the Association upon its strong organization and efforts to improve it. Organization is the order of the day, and the body of men who do not perfect an organization to protect their interests are behind the times. Behind the trade organization is the trade newspaper, and the former cannot succeed without the latter. Much has been said about "made in Canada" goods. Let this thought be carried to its logical conclusion and give the Canadian trade newspaper first preference, thus encouraging it to develop and equal, if not excel, in value the foreign publications. Hardware and Metal was developing its plumbing department, and the series of articles by Mr. Quinn would make it a paper worthy of the Canadian trade. The speaker thanked the Association for its support, and the members for their many complimentary references to the paper.

Messrs. E. B. Welsby (Hamilton) and George Cooper (Toronto) spoke to "The Ladies" toast, expressing their regrets that the gentler sex were not present to enjoy the hospitality of the Association.

Before closing a resolution of thanks was tendered the local association for the good time they had provided, and Chairman Mahoney replied by inviting them to visit the Royal City again.

The Supply Houses.

About thirty representatives of the supply houses were present to extend the glad hand to the delegates and join in the good time the plumbers always have on tap. Some were out for business as well as a jolly outing, none looking to selling any goods, however.

The two local houses were in the van, and their sample room in the Wellington Hotel was the centre of life when the convention was not in session. Messrs. J. M. Taylor, of the Taylor-Forbes Co., and R. E. Mills, of the Page Hersey Co., acting as hosts and doing the honors in fine style.

During the afternoon the representatives of the Canadian houses got together and discussed various matters of interest to the manufacturing and jobbing trades, afterwards going over to the convention to meet the delegates.

THE SOVEREIGN RADIATORS.

The Taylor-Forbes Co. had a fine exhibit of their new radiators, upon which



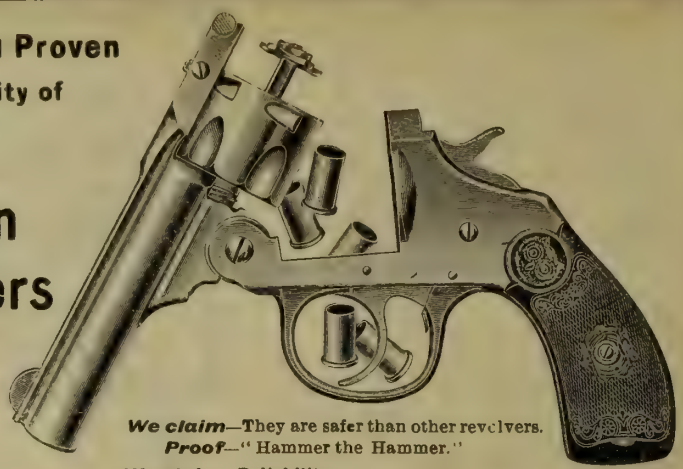
"Af the Ball Was Over.

their designers have been working since last Fall, the first castings being run through the day before the convention, and being very clean and well designed. Various sections were shown, and the

(*Continued on page 22*)

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We claim—They are safer than other revolvers.
Proof—"Hammer the Hammer."

We claim—Reliability.
Proof—The satisfaction given to more than a million users.

We claim—They are the best advertised.
Proof—Watch the magazines.

We claim—They are the best revolvers made
Proof—They have the largest sale of any revolver in the world.

And thus we might go on and substantiate every claim ever made for **IVER JOHNSON** Revolvers; but suffice it to say—

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CORN PLANTERS AND SEED SOWERS



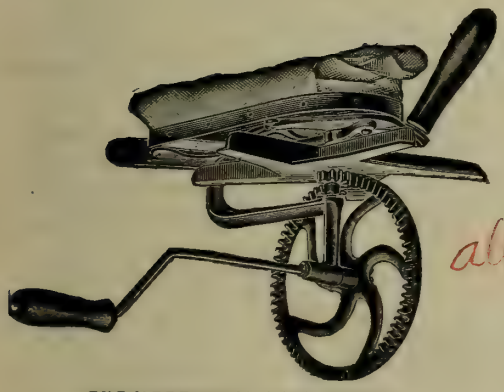
KENT'S CORN PLANTERS



THE "ESSEX"
One Hand Corn Planter



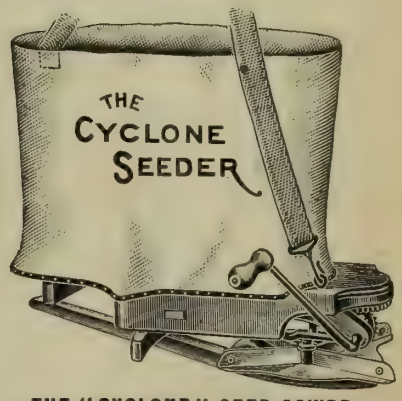
KENT'S CORN PLANTERS
With Pumpkin Seed Attachment



THE "PREMIER" SEED SOWER

THE "PREMIER" will sow any seed that is sown broadcast, such as oats, wheat, rye, rice, flax, millet, clover, timothy, grass seed, etc.

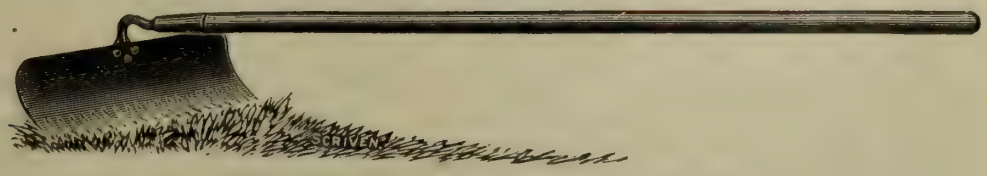
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THE "CYCLONE" SEED SOWER

THE "CYCLONE" will sow timothy, clover, wheat, oats, rye, buckwheat, bone dust, turnip, millet, corn, cotton and all other grain and grass seed. It distributes evenly and works perfectly. The operator can regulate it to sow any desired quantity per acre, and can sow *forty* to *sixty* acres per day.

LAWN RAKE



DUNN'S STEEL LAWN RAKES, 21 Teeth, Brace Head

The best Rake made for cleaning a lawn or removing dandelion heads or anything of like nature. When your Rake clogs push it back instead of lifting it from the ground, which will at once clean all the teeth.

H. S. HOWLAND, SONS & CO., LIMITED, Toronto.

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WE MANUFACTURE A FULL LINE OF

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The J.M.T. Cushion Disc Basin Cock

A good valve, a reliable injector, a steam cock that will stay tight are the class of goods you should carry —we make this kind. Ask for ***J M T*** Renewable Disc Valves and Injectors—in use in every town in the Dominion where steam is used.

J M T Cushion-Disc Compression work is used by all reliable plumbers because it carries with it a reputation for good work. They're made in all the particular patterns.

THE JAMES MORRISON BRASS MFG. CO., Limited

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HEATING AND PLUMBING

AN IDEAL REFRIGERATOR.

GRAVITY! What is it? Has it power? and if so, can that power be applied? Webster defined gravity as a force that attracts heavy bodies to the earth, and this being so, it surely has power, and power in any form can be applied if thoroughly understood.

In this connection it is our purpose to indicate in this article how gravity, the great natural force, can be utilized in obtaining the best possible results in a refrigerator of any size

In the first place, it should be understood that a good refrigerator must be as nearly as possible air tight, and that the walls must be constructed with a view to preventing an exchange of heat and cold between the inside and outside air, thereby making it economical as regards the consumption of ice.

Regarding the proper method of insulation, we do not propose to say much in this article, except that the walls and ends should, so far as possible, be composed of "dead air" spaces, or spaces in which air is imprisoned without any means of circulation. This method has been proven by actual tests to have advantages not possessed by insulations composed of asbestos, mineral wool, etc.

In designing a refrigerator care must be taken to guard against friction as far as possible, so that a free and uninterrupted circulation of air may be continuous in every portion of the cooling chamber.



Fig 1

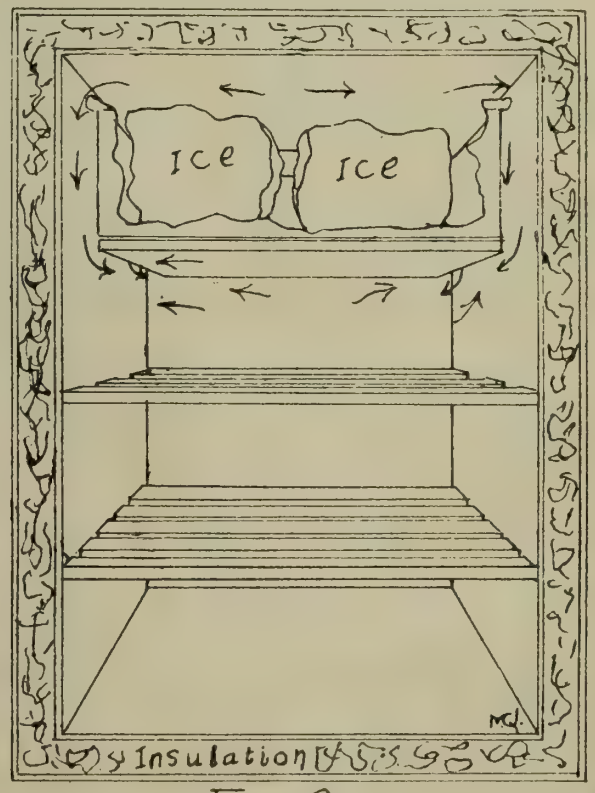


Fig 2

It may be well to explain here why a circulation of air in a refrigerator is not only desirable, but absolutely necessary.

It would no doubt be true to say that if the average man were asked how meat could best be kept, uncooked, for a lengthy period, he would answer, "In cold storage," and it would be equally true to say that if he were asked why cold storage had the effect of preserving vegetable and animal substances, he could not give a correct answer, and as we believe that a proper idea of the underlying principles of cold storage will be of assistance, we propose to explain them briefly.

In the first place nearly everyone is aware that decomposition of vegetable and animal matter is brought about by numberless minute micro-organisms, the action of which is strongest and most rapid in a warm atmosphere, and in effect is to break down the cells of the substance attacked, and to reduce them to water, gases, and other simple compounds, and in the process the size of the visible matter becomes sensibly less, until it entirely disappears. Should the matter, say, for instance, meat, be subjected to great heat, as in cooking, the microbes are killed and decomposition will not go on until a sufficient supply are again collected from the surrounding air, and the process is again begun, and continues with increasing rapidity as long as there remains anything on which the germs may feed.

It has also been found that if the microbes are exposed to an atmosphere of low temperature that, while they are not destroyed as in the case of extreme heat, their progress is almost entirely retarded, and so refrigerators are

brought into use with that object in view.

A first-class refrigerator will, however, perform duties other than merely providing a low temperature. It will, for instance, remove all moisture given off by the various matters within it, and will also dispose of the large number of the bacteria mentioned before, as well as the various odors given off, the latter being composed in most cases of infinitely small atoms, which, like the bacteria, are imprisoned in the moisture, and removed from the air by contact with the ice.

We know, of course, that as the temperature of the air rises, its power of carrying moisture increases, and that if it is suddenly chilled, as for instance on a cold water pipe in a warm room on a Summer day, it immediately loses that power, and the moisture is precipitated on the cold surface, and this is the principle upon which the moisture in a refrigerator, with all its imprisoned germs and odors, is removed, the cooling surface being the ice, from which the moisture drips and is carried away through a small pipe, properly trapped, and drained into some fixture or otherwise, but not under any circumstances into a drain.

As to the methods to be adopted in order to realize these ideal conditions, the reader will get a good idea from the accompanying cuts.

Fig. I. shows the ice chamber at the top of the box, with one end carried up above the ice, and the other to a point just high enough to prevent the ice from falling over, and with a cap to prevent any drip down the outside, and from the bottom of this low partition is built a false wall, which is composed of thin spruce boards (like the rest of the lining of the box) which extend down to within a few inches of the bottom of the cooling chamber, and between this and the outer wall the cold air is allowed to descend by its own weight, without conflicting with the upward currents of warmer air, which are therefore compelled to pass up through the higher duct on the opposite side of the box, and, having cooled by reason of contact with the ice, where the contained moisture, odors, germs, etc., are deposited, will in turn pass down again through the cold air duct, and so a continuous circulation is kept up.

It may be remarked here that a box constructed in this way will at all times have within it a sufficient circulation to keep in continual motion a well-balanced pin wheel, placed under the cold air duct.

Fig. II. shows a faulty construction, but one which, nevertheless, will be found in more than ninety per cent. of the boxes in use.

In this construction the ducts on each side of the refrigerator are the same height, the result being that the cold air in most of the ice chamber does not escape, because it cannot rise from the ice to get over the top of the partition, and that which does escape is met in both ducts by the warmer air attempting to rise, and in consequence there is little circulation at the top of the cooling chamber and none at the bottom. The circulation in both cases is well illustrated by the arrows.

The Mechanics' Supply Advt.

Attention is drawn to the unique advertisement of the Mechanics' Supply Co., Quebec, who are now fully established in their large premises, considered by many to be the handsomest and best-equipped in Canada. Their stock is complete and well assorted, and they are able to quote low prices, as they represent a number of leading manufacturers, for whom they are sole agents. A very handsome and handy pocket catalogue will be sent to any plumbers asking for same and mentioning this paper.

Premises Being Enlarged.

Messrs. Amiot, Lecours & Lariviere, of No. 520 Craig-street, Montreal, wholesale dealers in builders' and plumbers' supplies, are enlarging their premises at the above address. Buildings to the rear of the present showrooms have been razed, and it is their intention to extend the prosent showroom through to a narrow street running along the rear of the block. When all changes and decorations have been completed, it will doubtless be one of the finest and most up-to-date showrooms in Eastern Canada.

New Association Offices.

The plumbing supply houses represented in the re-organized Central Supply Association, have secured offices in the Canada Permanent Building on Toronto street and will move in next week. Mr. B. J. Morris, formerly with the James Robertson Co., is the new secretary.

Toronto's First Sky-Scraper.

A FIFTEEN-STOREY building is projected for the corner of Yonge and Colborne, upon the site at present occupied by the Traders' Bank. The sky-scraper will cost $750,000, and will represent the most modern methods of building construction. One new idea will be a series of doors on each floor, which at a certain degree of heat will close automatically and shut off the elevators and stairways from the remainder of the building. With these in operation the entire building might burn, if it were not fireproof, and the inmates could pass to the stairway and elevator without danger. A stand pipe will extend to the roof of the building, and the projectors claim that with their own equipment they can fight any fire, not only in their own building, but in those surrounding it as well. Apparatus to filter the air for the building and to collect the dust by a vacuum process is also proposed.

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Representing British and American Manufacturers. Correspondence invited from firms wishing to be represented in Canada.

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North West Machinery & Iron Co.
LIMITED
WINNIPEG, Canada

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Kerr's Extra Standard
GLOBE VALVES

are of the best quality. They give the best of service, and are moderate in price.

Every valve is TESTED, and PACKED and GUARANTEED.

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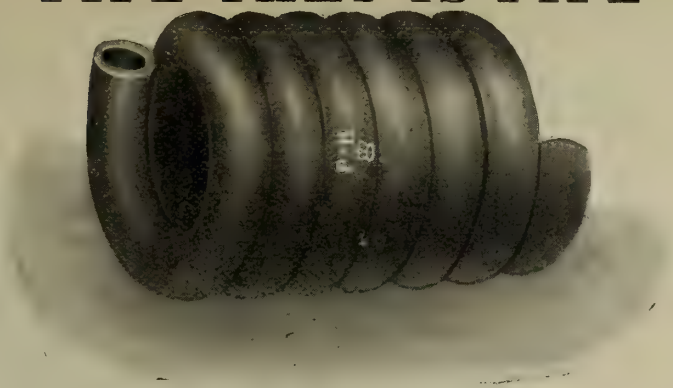
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THIS IS OUR BRAND

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You Want It.

See that You Get It.



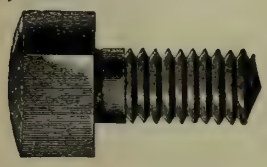
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THE JOHN MORROW MACHINE SCREW COMPANY, Limited

Manufacturers of

Set and Cap Screws, Special Milled Work, Engine Studs Etc. Cold Punched Nuts of every variety of finish.

INGERSOLL, ONT.

PRIEST'S CLIPPERS



Largest Variety, Toilet, Hand, Electric Power

ARE THE BEST.

Highest Quality Grooming and Sheep-Shearing Machines.

WE MAKE THEM.

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Wiebusch & Hilger, Limited special New York representatives, 9-15 Murray Street.

MAGAZINE GLASS CUTTERS

6 Extra Coal Carbon Steel Disc Wheels



Ask your Jobber for Red Devil Brand. Accept no others. Send for the Green Book of Glaziers' Tools.

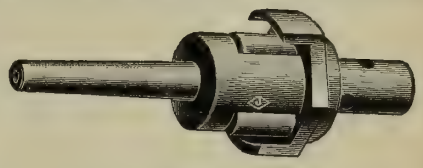
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Self-Feeding Boiler Tube Expander

has case-hardened body. It will outwear any Expander on the market, and it's cheap.

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SMALL DROP FORGINGS

Send Samples or Specifications for prices.

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BRISTOL, CONN.



FAULTS

in the ordinary hot water boiler: Water cone built on horizontal lines; one return pipe; poor grate device. These three faults are done away with in

THE ECONOMICAL HOT WATER BOILER

Our booklet tells the story at length. Send for it.

P. GIES, Founder, BERLIN, ONT.



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YEARS YEARS YEARS

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GUARANTEED



At the Same Price

Isn't it Best to use the Kind that are

GUARANTEED FOR 5 YEARS 5 YEARS 5 BY

GLAUBER, CLEVELAND, OHIO, U.S.A.

ONTARIO MASTER PLUMBERS' ASSOCIATION.

(*Continued from page 16*)

new line was much admired by all. The company expect to be producing next month, and will soon have additional ornamental designs on the market. Sixteen styles and over 250 sizes will be made, and the company claim increased surface, reduced friction, larger connections, new designs and screwed nipples, as the special features of the "Sovereign" line. It is recalled with interest that the first screwed-nipple radiator made in America was made in Guelph in 1883 by Mr. Kirkwood, and with Mr. Taylor's connection with the radiator trade during the past two decades there is every reason to expect that Guelph should hold its own in this line of manufacture in the future. Fine leather pocket books were distributed amongst the delegates by Mr. Taylor, and while no money was included in the pocket-book space is provided for the large rolls of bills which Mr. Taylor says will be realized by dealers who push the new radiators. It is announced that hot-water boilers will also be produced at an early date.

P. H. CROWN PIPING.

The Page-Hersey Co's. exhibit of piping was not very large in quantity, but more than made up for this lack in the quality of the goods shown. All the regular sizes were shown, as well as several samples of double extra-heavy or hydraulic piping. Specimens of 1-4 inch and 2 1-2 and 3-inch sizes were also shown, these being sizes made exclusively by this company. The cold coiled piping showed the quality of the pipe to excellent advantage, and the



Peter Jessimane, Toronto.

brand, "P. H. Crown," being on every link, guaranteed this. Mr. Mills presented each delegate with a box of fine cigars, the well-known "P. H. Crown" brand being on the cigar, together with the legend on the box. "Pipe that is pipe."

JARDINE PIPE DIE.

The "Jardine" Patent Pipe Die, manufactured by A. B. Jardine & Co., Hespeler, Ontario, was another local exhibit which attracted considerable attention. Mr. Jardine explained the workings of the die to many of the delegates, his claim being that one man can do twice as much work with his machine as two men could do with any other. In a recent test it took a man one hour and twenty-three minutes to thread six pieces each of 1, 1 1-4, 1 1-2 and 2-inch pipe, a helper being required when one of the best American machines was

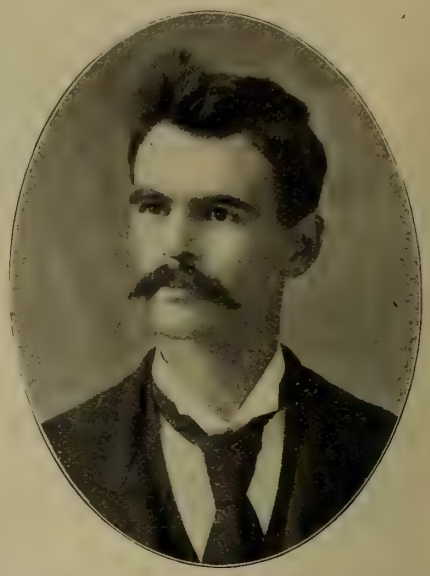


used. The other end of the same pipes was threaded in forty-four minutes with the Jardine machine.

AMERICAN SUPPLY HOUSES.

The Welsbach Co., Chicago, represented by Lee H. Wilson, had a large and interesting exhibit of lights and mantles, his samples being fitted to the gas piping in the hotel. Mr. Wilson came to Canada expecting to have to introduce his goods, the company never having sold a bill of goods to a Canadian firm. He was surprised to find them already well known, having been supplied through a Detroit jobbing house. The trade will be pushed from now on, and Mr. Wilson will cover the country to report on its possibilities.

The Mueller Manufacturing Co., Decatur, Ill., represented by George A. Caldwell, of Buffalo, and the Wolverine



T. A. Cowan, Brantford.

Brass Works, of Grand Rapids, represented by L. J. Avery, and the United Brass Manufacturing Co., Cleveland, Ohio, represented by Mr. S. P. Schoenberger, had fine lines of plumbers' brass goods on view in the sample rooms.

SUPPLY HOUSE REPRESENTATIVES.

Canada Radiator Co., Port Hope—M. P. Huffman.

Canada Metal Co., Toronto—W. G. Harris.

Dominion Radiator Co., Toronto—P. McMichael, R. J. Cluff and Thomas Worthington.

Gurney Foundry Co., Toronto—E. J. Brewer.

Jardine & Co., Hespeler—A. B. Jardine.

James Morrison Co., Toronto—F. W. Armstrong.

McDonald & Willson, Toronto—E. B. Fewings.

Malcolm & Co., Toronto—W. B. Malcolm.

Mueller Manufacturing Co., Decatur, Ill.—George A. Caldwell.

Ontario Lead & Wire Co., Toronto—Fred Somerville, H. Somerville and J. Deverill.

Page-Hersey Co., Guelph—W. W. Near and R. E. Mills.

James Robertson Co., Toronto—A. A. McMichael, W. H. Sheppard and J. R. Foster.

Stevens Manufacturing Co., London—Andrew Mann and J. McLaren.

Standard Ideal Co., Port Hope—A. D. McArthur, Toronto.

This Paint Sells



We are not giving you any worn-out phrases, such as "The best in the market" — "Always up-to-date"— "Made from the best," etc., etc.

You know all that already. We tell you simply "This Paint Sells," and there is a profit in it for you— more profit than in House Paints— and the farmer wants it.

He will pay $1.00 a gallon easy, and you don't have to talk all day about it either. This is Ramsay's Outside Paints.

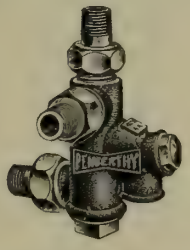
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GENUINE

TRADE PENBERTHY MARK.

SAFE



SIMPLE

AUTOMATIC INJECTOR

Penberthy Oil Cups Lead



"SALUTE"
Snap Lever Oiler

MADE IN CANADA



"SULTAN"
Gas Engine Oiler

ASK YOUR DEALER

WE'VE NO GOLD BRICKS

TO SELL, BUT SOMETHING

FAR MORE PROFITABLE TO YOU

THE NATURO CLOSET



AND SEAT

These sell almost at sight.

Just a few words of explanation—

Then—

Nothing else will do.

How's that?

Because a NATURO Closet in a home

Means———

Perfect sanitary conditions

No wet floor or seat

Fewer drug bills.

Our Book will prove this to you.

Want it?

Drop us a card

The NATURO Company

C. H. MUCKENBIRN, President.

Salem, N.J.

Toronto Foundry Co., Toronto—H. W. Anthes and L. L. Anthes.

Toronto Hardware Co., Toronto—George H. Gouinlock.

Taylor-Forbes Co., Guelph—J. M. Taylor, Adam Taylor, James Taylor and J. P. Hockin.

United Brass Manufacturing Co., Cleveland—S. P. Schoenberger.

Welsbach Co., Chicago—Lee H. Wilson.

Wolverine Brass Works, Grand Rapids, Mich.—L. J. Avery.

Convention Notes.

A group photo of the delegates was taken on the steps of the new Carnegie Library at the close of the morning session.

David Craig, of Boston, Mass., president of the National Association of the United States, will be one of several



John McKinley, Ottawa, elected Delegate to Atlantic City.

from the States who will attend the national convention in Winnipeg in July. Mr. Craig will be at home in Canada, as he is a native of St. John, N.B.

The weather on Good Friday might have been improved upon, but the convention could hardly have been.

One of the events of the banquet was the presentation of a purse to the waitresses by Secretary Meredith, a sugar bowl having been passed around the tables. Mr. Meredith's coat tails were firmly held by strong men during the ceremony.

The topical hits in the readings by J. C. Strachan were the cause of much amusement at the banquet.

The Hamilton boys brought down a stereophicon outfit, and Mr. Davies sang several illustrated songs to the delight of all present.

A lively bunch at the foot of one table was composed of Fred Armstrong, H. W. Anthes, A. A. McMichael and other jolly spirits. They fully held up their end. Sure, Mike!

If it wasn't J. M. Taylor it was Adam, and if it wasn't Adam it was Jimmy. That trio would be the life of any gathering.

Peter Jessimane, of Toronto, was always the centre of a lively bunch of delegates.

A. Rogers, of Hamilton, reports the condition of trade in the Ambitious City to be excellent. He expects to land a $24,600 job on the proposed new hospital.

D. Butchart, of the Butchart Hardware Co., Owen Sound, telegraphed that the burning out of his store would prevent his attendance at the convention.

London had ten out of thirteen members present. The veteran Wm. Smith was one of the absentees. London is experiencing a building boom, and the scarcity of labor is the only trouble.

The places not represented were: Brampton, Chatham, Collingwood, Cobourg, Fort William, Ingersoll, Lindsay, Leamington, Perth, Port Arthur, Peterboro, Petrolea, Owen Sound, Sandwich, Smith's Falls, Stouffville, Sturgeon Falls, and Walkerville.

Frank P. Turner, of Pittsburg, represented Domestic Engineering at the convention and banquet.

The East and the West, the past and the present, clasped hands at the convention when John McKinley, of Ottawa, met James Pennington, of Windsor. Thirty years ago, when Mr. McKinley was only 19 years of age, he installed a Beehive boiler in the home of John Davis, collector of Inland Revenue, Windsor, it being the first hot-water heating plant installed in Windsor. It continued doing its duty until last Spring, when Mr. Pennington put in a new boiler.

Many delegates paid a visit to the Taylor-Forbes works on Saturday morning and inspected the monster plant they have on the banks of the Grand River and alongside the C.P.R. track. The plant covers eight acres, and in addition to the steam and water-power already in use, electrical dynamos are now being installed. About 280 hands are employed, and practically every class of general hardware is made, a specialty being that of lawn mowers.

The Page-Hersey plant was visited by a deputation of delegates on Saturday morning, and considerable interest shown in the making of nipples, the threading and galvanizing of pipe, and the unloading of skelp for making pipe. Unfortunately the rolling plant was not in operation.

Besides several half-tone pictures of the new officers, Hardware and Metal has been fortunate in securing a number of sketches from life of leading figures and incidents at and after the banquet. For these we are indebted to Mr L. L. Anthes, of the Toronto Foundry, whose ability as an artist is well known to the trade.

For further information about room 11 ask Messrs. A. D. McArthur, Fred Somerville, Fred Armstrong or Lawyer Dunbar.

The sketch of Peter Jessimane will be recognized by most, although the artist has put a rather sober look on his jovial face.

The spectacle of two well-known supply men parading in pyjamas and overcoats after the banquet attracted two of Guelph's finest, who made a raid on the hotel. One was captured and made a prisoner before reinforcements arrived. The helmet, the overcoat buttons and other relics were sketched by our artist after the battle was over.

The membership of the provincial association has increased between 90 and 100 during the year. Last year the growth was from 99 to 135.

PLUMBING MARKETS.

Quebec.

Office of HARDWARE AND METAL,
232 McGill street,
Montreal, April 28, 1905.

EVERY indication points to the fact that the jobbing plumber has commenced outside work in earnest. The orders which are being received now instead of calling for one line of goods as formerly, call for a general line of goods, or, in other words, everything that is needed to complete a job. Since the opening of navigation large shipments have been forwarded by boat to plumbers residing in the vicinity of the River and Gulf of St. Lawrence. Everything points to a banner year, and if labor troubles do not interfere with the peaceful trend of affairs the amount of work accomplished this year shall be far in advance of last year.

Range Boilers—We quote as follows: Iron clad, 30 gallon, $6, and 40 gallon, $7.50 net; copper, 30 gallon, $22; 35

SHEET BRASS AND COLD ROLLED COPPER

We are now fully equipped and can fill all orders for these metals.
Send us specifications of your requirements. Write for our Discount Sheet.

CANADA BRASS ROLLING MILLS, LIMITED

Mills: NEW TORONTO, CAN. Head Office: 98 King St. W., TORONTO

REFRIGERATORS



Opalite
Royal Oak
Imperial
Puritan
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Sanderson-Harold Refrigerators

are unequalled for
General Appearance, Style
and Construction

If you want the best you must
carry our line.

Write for Catalogue. It will pay you.

SANDERSON-HAROLD CO., Limited
Manufacturers of
Refrigerators, Screen Doors and Windows
PARIS - - ONTARIO



More heat with less combustion of fuel is what you are looking for in a boiler.

It is what we have been working for, for years.

We have it in the Oxford Hot Water Boiler. With this boiler as the heart of your heating system you have the best yet produced.

We have taken advantage of every scientific point that would add power to our boiler and the result has reached our highest expectations.

The ash pit is particularly spacious and is provided with an ash sifter which removes all dead ashes and leaves the coal so it can be shovelled back into the fire with the least trouble and no dust.

The hollow triangular grate-bars give a particularly clear draught. Clearing the fire-pot of dead ashes is accomplished by a sharp turn of the handle.

All the flues are made bell-shaped and the walls of the fire-pot are inclined inwards so as to give a large surface to the action of the fire.

Write for our book illustrating and explaining the Gurney Oxford Steam and Hot Water Apparatus, which we will send free.

The Gurney Foundry Co., Limited

TORONTO WINNIPEG VANCOUVER

The Gurney-Massey Co., Limited, Montreal.
The Gurney Standard Metal Co., Limited, Calgary, Alta.

A Perfect Stove



Fire Box
Oven
Ash Pit
Reservoir
High Shelf
High Closet
Appearance
Castings

THE EMPIRE QUEEN RANGE

Submits to every test for it has nothing to fear.

STOVE MEN—Read this testimonial:

Owen Sound, Dec. 30, 1904.

Having used one of your Empire Queen Ranges in our home, I am pleased to say that it is an ideal stove. It has a large oven that bakes well and very evenly; a fire-box that is propor ioned to burn coal with the greatest economy, and has all the trimmings that go to make up a really handsome range and at a reasonable cost.

Yours truly,
H. Sidney.

Send for Our New Booklet

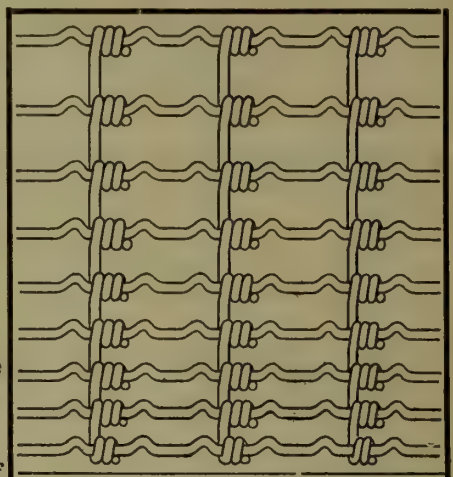
The Canadian Heating & Ventilating Co.

OWEN SOUND, ONTARIO. Limited

Galvanized Steel Woven Wire Fence

HIGH CARBON

The proof of the pudding is, that more of our Fences are in use than all other makes of Wire Fences Combined



American Field and Hog Fence

We Continue to Manufacture the Celebrated

ELLWOOD DIAMOND MESH ORNAMENTAL FENCES

We call your special attention to our Extra Heavy Fence, all Horizontal Wires No. 9 Gauge. Weighs more per rod, has greater tensile strength than any other Fence on the market

If your Dealers do not handle our Fences write to us

THE CANADIAN STEEL AND WIRE CO., LIMITED

WINNIPEG, MAN. HAMILTON, ONT.

Ferrosteel Registers

WE MAKE ALL LINES

ALL CAST MODIFIED STEEL
ALL STEEL

QUALITY EVERLASTINGLY THE BEST
PRICES EVERLASTINGLY THE BOTTOM

OUR
- ALL CAST — Are time-tried and worth-proven
- MODIFIED STEEL — The novelty success of 1904
- ALL STEEL — Almost ready and a sure winner

THE FERROSTEEL CO.

34 Michigan St., CLEVELAND, OHIO.

By Royal Warrant Sword Cutlers to HIS MAJESTY THE KING

By Royal Warrant Sword Cutlers to H.R.H. THE PRINCE OF WALES

WILKINSON SWORD CO., LTD.

Manufacturers Of

RAZORS

GOLD MEDAL AWARDED 1904

Patent Safety
SHAVERS

Table and Pocket
CUTLERY

SCISSORS

Made from Finest Sword Steel

General Electro Plate

Our Representative is now in Canada, and will be calling upon you.

FACTORIES: Oakley Works, ACTON, LONDON
Colonial Works, SHEFFIELD

Head Offices: 27 and 28 PALL MALL, S.W., LONDON, England

MECHANICS' SUPPLY COMPANY.

80-90 St. Paul Street, - QUEBEC - 59-67 St. Andrew St.

Outils et Fournitures pour Plombiers, Gaziers, Mecaniciens, Ingenieurs, Electriciens, Etc.
EN GROS ET EN DETAIL

CARD J CARTE

Tools and Supplies for Plumbers, Gas & Steam Fitters, Machinists, Engineers, Electricians.
WHOLESALE AND RETAIL

Telephone 456. W. H. WICGS.

SOIL PIPE FITTINGS. TUYAU ET ACCESSOIRS EN FONTE. 2, 3, 4, 5 & 6 INCH (POUCES)

LEAD—EN PLOMB

BATH ROOM FIXTURES
LARGE ASSORTMENT

SEND FOR SPECIAL ILLUSTRATED CATALOGUE.

MARBLED LAVATORY BASINS

Manufactured Expressly for the MECHANICS' SUPPLY COMPANY, Quebec.

ASK FOR OUR SPECIAL CATALOGUE "M" SHOWING FULL LINE OF ACETYLENE GAS FITTINGS.
Demandez notre Catalogue Spécial "M" montrant toutes les lignes d'appareils du gaz acetylene.

Be sure to give Figure and Card Number when ordering CARD "J" Quand vous donnez un ordre ne manquez pas de mentionner le numéro et la lettre "J"

RETURNED OCT 6 1905

T. Owner
Cash Book f 1

gallon, $24; 40 gallon, $28. The discount on copper boilers is 15 per cent.

Lead Pipe—The erection of numerous buildings has resulted in an increase in the demand for lead pipe. Prices are firm, but no advance is expected. We quote as follows: Discount 30 and 5 per cent. f.o.b. Montreal, Toronto, St. John, N.B., and Halifax; f.o.b. London, 15c. per hundred lbs. extra.; f.o.b. Hamilton, 10c. per hundred lbs. extra.

Iron Pipe Fittings—The conditions on this market remain the same. Discount on all sizes of nipples up to 6 inch, 67 1-2 to 70 per cent.

Iron Pipe—The demand for iron pipe is so great that the mills find it difficult to forward orders when specified. The erection of a large number of cheap dwellings has resulted in iron pipe being used where lead pipe had the demand in former years. Prices continue unchanged. We quote: Standard pipe, in lots of 100 feet, regular lengths, 1-4 inch, $5.50; 3-8 inch, $5.50; 1-2 inch, $8.50; 3-4 inch, $11.50; 1 inch, $16.50; 1 1-4 inches, $22.50; 1 1-2 inches, $27.00; 2 inches, $36.00; discounts on black pipe, 1-4 inch, 62 1-2 per cent.; 3-8 inch, 62 1-2 per cent.; 1-2 inch, 72 1-2 per cent.; 3-4 inch, and upwards, 74 1-2 per cent. Discounts on galvanized pipe: 1-4 inch, 47 per cent.; 3-8 inch, 47 per cent.; 1-2 inch, 62 per cent.; 3-4 inch and upwards, 64 per cent. Extra heavy pipe of 100 feet lots are quoted as follows: 1-2 inch, $12.00; 3-4 inch, $15.00; 1 inch, $22.00; 1 1-4 inches, $30,00; 1 1-2 inches, $36.00; 2 inches, $50.00. The discount for black pipe is: 72 1-2 per cent., and for galvanised, 61 per cent.

Soil Pipe and Fittings—It is rumored that the list for soil pipe and fittings has been withdrawn, and there is a good prospect for an advancement in the price list. The demand continues to be good. We quote: Soil pipe standard, 50 and 10 per cent. off list. Standard fittings, 50 and 10, and 10 per cent. off list. Medium and extra heavy soil pipe 60 per cent. off. Fittings 60 and 10 per cent. off.

Ontario.

Office of HARDWARE AND METAL,
10 Front Street East.
Toronto, April 28, 1905.

SUPPLY houses are very busy, orders being received in very large quantity both from city and country customers. All fear of strikes seems to have passed away, and all are looking forward to an active and uninterrupted season of building operations. Orders which were booked for lake and rail shipment have been cleared out. All lines are reported to be active, much roughing in having been accomplished, and lines needed for finishing work being in equally strong demand.

Much interest is being taken in the case against the employe of the James Robertson Co., who is claimed to have refused to sell goods to a builder. The case was adjourned again on Tuesday for hearing later on in the week, and the result will be given next week. Charges are made that a combine exists in the plumbing supply trade, but no evidence has been adduced to support the contention.

Prices quoted last week continue to rule in the market.

Lead Pipe—Prices continue strong, the demand being active. We quote: Lead, 7c.; lead waste pipe, 8c.; discount, 30 and 5 per cent.

Soil Pipe and Fittings—These lines are in strong demand, and the same quotations rule. We quote as follows: Medium and extra heavy pipe and fittings, 60 per cent.; 7 and 8 inch pipe, 40 and 5 per cent.

Iron Pipe Fittings—Much business is being done in fittings, the mills being rushed to supply orders. Prices continue strong. We quote: Malleable fittings 20 to 25 per cent. for American and 35 per cent. for Canadian; cast iron (standard), bushings, 65 per cent.; headers, 60 per cent.: flanged, unions, 60 per cent.; lipped unions, 60 and 5 per cent.; malleable bushings, 60 per cent.; nipples up to 6 inch inclusive. 75 per cent.

Copper Range Boilers — Trade is active. The discount of 15 per cent. continues.

Galvanized Iron Range Boilers—A large number of orders are being received by jobbers from the trade. Quotations are unchanged: 12 gallon capacity, standard, $4.50; extra heavy, $6.50; 18 gallon, standard, $4.75; extra htavy, $6.75; 24 gallons, standard, $4.75; extra heavy, $6.75; 30 gallon, standard, $5; extra heavy, $7.50; 35 gallons, standard, $6; extra heavy $8.50; 40 gallons, standard, $7; extra heavy, $9.50; 52 gallons, standard, $11; extra heavy, $14; 66 gallons, standard, $18; extra heavy, $20; 82 gallons, standard, $21; extra heavy, $24; 100 gallons, standard, $29; extra heavy, $34; 120 gallons, standard, $34; extra heavy, $40; 144 gallons, standard, $47; extra heavy, $55.

Iron Pipe—The demand is so great that mills are rushed to their full capacity. Prices still continue as before, although a continuance of the activity may result in a rise. We quote: Black, 1-4 inch, $2.03; 3-8 inch, $2.06; 1-2 inch, $2.29; 3-4 inch, $2.87; 1 inch, $4.12; 1 1-4 inch, $5.62; 1 1-2 inch, $6.75; 2 inch, $9. Galvanized, 1-4 inch, $2.86; 3-8 inch, $2.89; 1-2 inch, $3.14; 3-4 inch, $4.02; 1 inch, $5.77; 1 1-4 inch, $7.87; 1 1-2 inch, $9.45; 2 inch, $12.60.

Solder—Prices continue firm with an active demand. Bar solder, half and half, guaranteed, is quoted at 19c.; wiping solder at 17 3-4c., and refined 18c.

Enameled Ware—Orders are being placed in large quantity for baths and other lines. The new discounts quoted on Canadian ware are not yet ready for publication.

PAGE METAL GATES

3 feet wide, 4 feet high including hinges and latch $2.25
10 feet wide, 4 feet high, including hinges and latch 5.25
Other sizes in proportion.

Supplied by us or local dealer. 207

THE PAGE WIRE FENCE CO. LIMITED, Walkerville, Montreal, Toronto, Winnipeg, St. John

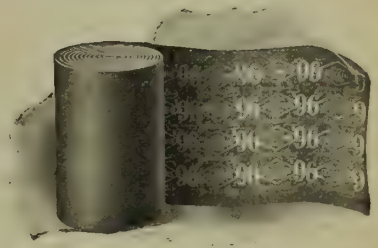
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Munderloh & Co

Electrical Supplies of all kinds. MONTREAL.





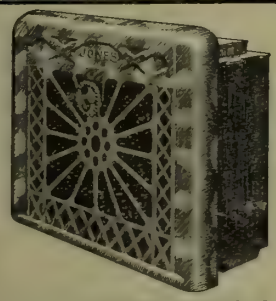


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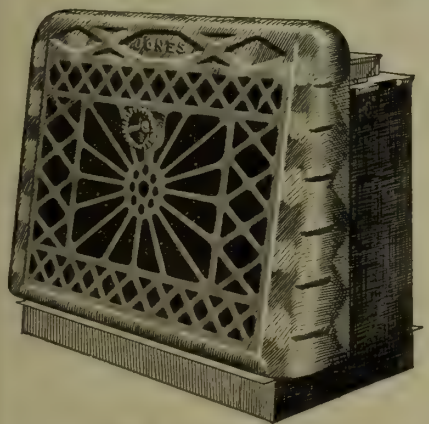
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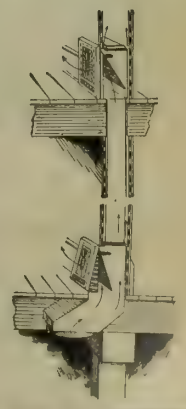
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The HAMILTON RIFLE, though retailed at $2.00 (No. 15) and $2.50 (No. 19) is a genuine firearm.

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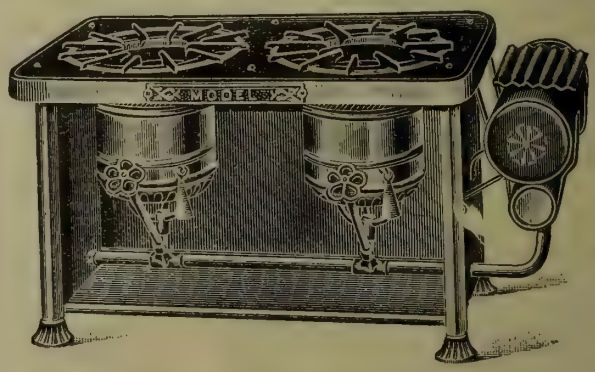
are handsome, and are constructed in their general features just like rifles that sell at $5.00 to $6.00. They are every whit as good, and at their low price twice as salable.

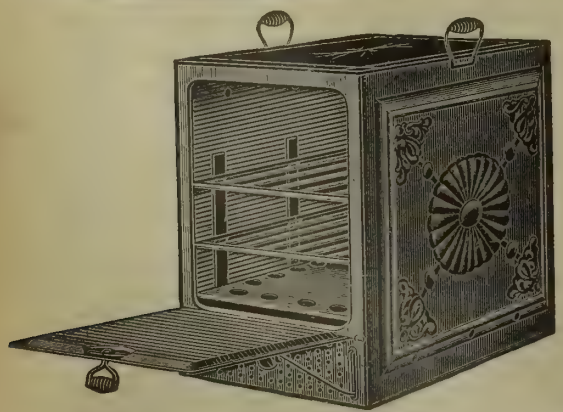
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It contains 24 pages and shows all our lines of gas, gasoline and oil stoves, refrigerators, ice cream freezers and improved cooking utensils. If you have not received a copy drop us a card. We can make prompt shipment of these goods.

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A HAPPY MAY DAY.

THERE is every indication of a happy and joyful May Day this year for all who are interested in industrial peace, so far as the building trades are concerned—and this includes nearly every class in the community. Unless a bolt from the blue unexpectedly falls there will be no strikes to mar the development of this important branch of labor in every part of Canada.

Strikes to-day are mere tests of financial endurance, with the workers losing money they sorely need whether the strikes are won or lost by them. While they are often pressed to extreme actions by the increasing cost of living and the difficulty of paying the landlord and other creditors, the great mass of workers are beginning to see that they and their families have little to gain and everything to lose by resorting to the use of the strike weapon.

The wonderful activity in house building in Toronto this Spring in the effort to relieve the house famine is proving a boon to hardwaremen and plumbers, and the reported agreement between the bricklayers and the Builders' Exchange has been good news to all. In other cities building is being rushed forward rapidly, and the chief difficulty appears to be the lack of skilled labor, despite the influx of thousands of immigrants from Europe.

In Toronto during the past week permits have been issued for 63 dwellings and other buildings, at an aggregate cost of $261,700. With building so active and little prospect of labor troubles the outlook for business this season is of the brightest. Let us hope that the sky will remain clear.

A MIGHTY OCTOPUS.

THE rapidity with which industry is centralizing is not realized by many. So common have become the reports of great mergers and combinations that most readers of newspapers have become accustomed to them, and enormous financial deals now create only the mildest sort of sensations which last only a short time. Ten years ago the man who predicted that two or three men could control every mile of railroad in the United States would have been looked upon as crazy, as the man who ten years ago predicted the coming of wireless telegraphy. The following dispatch from Chicago foreshadows what is coming so far as the railroads are concerned :

"With a capitalization running into the billions, the most powerful trust in the world is in the process of incubation. While it will probably be masked under the name of 'Central Securities Co.,' it will nevertheless be a railroad trust of proportions calculated to stagger the most blase of financiers, accustomed to playing with millions. Compared with this mighty octopus, steel, beef, and other trusts will be pigmies. Billions of dollars are represented in this great combine now forming, and when the merger is completed all of the great railroads in the United States with trackage enough to span the globe will be found tied together in financial interests. The plan is to make a securities company the holding and financial agent of the leading railroads spanning the United States from the Atlantic to the Pacific and from the Gulf into Canada. This means the amalgamation of railroad interests under one governing body which will have a power beyond present comprehension."

NEW BOATS FOR COAL TRADE.

THE efforts of the Nova Scotia coal operators to unload their surplus product on the Ontario market and develop a profitable trade in the west, is likely to result in success this season in spite of the refusal of the Nova Scotia Government to aid them in the enterprise.

The Dominion Coal Co. intends experimenting with a new type of tubular boats, which will make their initial trips in June next.

In the new type of boat the centre of gravity is low. This fact is made use of in connection with the unloading plant of conveying belts. The single plant is calculated to automatically discharge coal at the rate of four hundred tons per hour on to pier, or into cars or other vessels. Smaller craft could thus be loaded rapidly in stream from the larger vessel. This means saving in time and in delays at terminals or unloading piers. In an 8,000 or 10,000 tons vessel three or four of these plants could be installed and unloading carried on at the rate of from 1200 to 1600 tons of coal per hour. The conformation of the tubular boat is such that plants could be installed with a minimum loss of space and the centre of gravity being much lower than in the ordinary type, the stability of the craft would be unaffected. Considering capacity the new boat will have very light draught. 10,000 ton boats in the same class are calculated to draw only 18 feet of water. Such could ply from Fort William on Lake Superior to Port Colborne at the entrance to the Welland Canal, and could then transfer in stream their cargoes to 3,000 ton boats drawing 14 feet of water. These could then proceed through to Montreal without any difficulty. The passage could be accomplished from Cape Breton and 10,000 ton boats could proceed up the St. Lawrence and transfer to these smaller

boats of the same type by means of the automatic belt conveyors, and thus establish a profitable trade.

A BOOK ON CREDITS.

"THE CREDIT MAN AND HIS WORK" is the title of a new book written by Editor Lewis, of the Business Man's Magazine, and in reviewing it the Hardware Trade says the author goes to the foundation of his subject and builds a structure of practical ideas on a base of the historical and theoretical. It is a work which the buyer and seller of merchandise should read be he credit man, wholesale buyer, salesman or retailer.

Mr. Lewis' statements get over the line into the prophetic occasionally, and in the play of his vigorously expressed ideas one almost sees the man and feels the personality which is whipping the horse of theory on to the realm of reality. There is nothing of the cocksure about it, simply the opinions of a man whose faith is strong. For instance, he says :

"The jobber is the nondescript agent of the manufacturer and the retailer. Gradually he will be eliminated as a commercial force.

"Eastern jobbers in many lines are going out of the market. In the south, until she is thoroughly rehabilitated—and in the west, until she has gained her full stature, the jobber will continue to exist and have a place, giving way in turn to the selling agent, who will handle the sales department of several concerns who see an advantage to be gained in a guaranteed volume of output at an average market price."

Here is a prediction based on the progress of events in merchandising in the east. This decline of the jobber is a favorite theme of many persons, but the arguments made in recent years on the other side of the question show how certain Mr. Lewis is to meet with fierce opposition on this point.

One of the interesting features of the book is the author's indictment of the small retailer as lacking in brains. He dresses it in the following words :

"The era of cheap transportation and quick communication has produced the mail order house. One other thing has kept it alive—the poverty of brains of the small retailer.

"He has persisted in believing that just because he was an Odd Fellow or a Forester, or any one of a thousand other things, save a wide-awake, progressive merchant, people would come to him and pay him a fraction more for things they could buy of a house a thousand miles away. He imagined because he had a thing people should come and ask about it when the house a thousand miles away came to the people and told them about it in as interesting a way as possible.

"The writer blames the retailer for lack of brains, probably that is an impotent and bootless censure, but during a period of twelve years in which he has visited nearly every town of 5,000 people and over in the United States, and over fifty of 2,000 and less, he has become more and more convinced that what the country retailer and the small city retailer needs the most is some good, wholesome advice, backed up by the financial rod in cases of bull-headed ignorance about how to keep store and how to get business and keep it.

MONTHLY PLUMBING NUMBER.

Attention is drawn to the article by Mr. M. J. Quinn on "An Ideal Refrigerator" in this issue. Mr. Quinn is Mechanical Superintendent for the Ontario Government, and this article is the first of a series of thirty which will be written by this practical and experienced writer. No Canadian plumber can afford to miss an article.

The report of the Guelph Convention on Good Friday is given considerable space, it being the most important event in the history of plumbing organization in Canada. A magnificent group photo of the delegates will be printed next week.

"When an intelligent man, a partner in one of the principal stores of Springfield, Mass., will get up before his fellow merchants in a Chamber of Commerce meeting and, in all seriousness, ask an advertising man if he could guarantee results on a given expenditure in advertising, and then, with equal seriousness, say he had received no benefit from an hour's talk on the subject of business-getting from a man who has been in the thick of the fight more years than the questioner could count since his last failure, it is pretty near time for the credit men of this country to obtain a permanent commission in lunacy to pass on applicants for retail credit."

If this is not hot enough you can apply elsewhere. It bears every evidence of close contact with the ginger jar, and although many small retailers may take exception to the sweeping nature of the indictment all of them will agree it is in terms that leave no doubt as to the meaning of the writer.

But the author does not stop with the retailer. He goes on to the credit man with a word on the performance of a plain duty. He says :

"The credit man of the future will help the retailers to a better understanding of means and methods. He will teach them to buy sparingly but often, rather than largely and seldom. He will teach them to keep in closer contact with the suuply. He will teach them how to use printer's ink with discretion and effect. He will know something of their people. He will teach them the cardinal principle of modern business."

What manner of man ? is the question answered in one of the latter chapters which deals with the successful credit man. It is a good summing up of the credit man of good judgment and good results.

DEATH FROM HEART FAILURE.

NEW YORK doctors have noticed a startling increase in the number of sudden deaths from heart failure in the city during the first three months of the year. These deaths or the majority of them they attribute directly to the tense life lead nowadays by dwellers in large cities. While the general death rate has been remarkably reduced, through the wonderful advances made in medicine and surgery, the number of deaths from this other cause has been steadily increasing.

The simple truth is that men are living too strenuously. They eat too fast, they work too hard, they play too hard, and they sleep too little. Sermons could be preached on each one of these heads, but the mere statements should carry conviction.

Even in our Canadian cities, small though they are as compared with New York, the evil is a noticeable and a growing one. Business is carried on with more strain than it used to be and the increased strain is carried into all departments of life. The very multiplication of facilities and labor-saving devices has tended to make the brain and the body work harder. Let warning be taken before it is too late.

THE EVOLUTION OF LIGHTING.

OF all the changes which have been wrought during the last century, none have been more noteworthy than those which have taken place in the methods of lighting our buildings and homes. From that time of long ago when the blazing pine knot, with its dancing flame, furnished all the light that the household knew—down to our own time when the night indeed "shines as the day" through the magic of electricity, human invention has been busy with this problem.



Drawing-room Fixtures. McDonald & Willson, Toronto.

From the pine knot to the "tallow dip" was a step towards convenience and utility, and from the "tallow dip" to candles of better material another step in the same direction, but from the candle to the lamp, even the crude and inefficient "whale oil" lamp, was a leap which to our forefathers seemed a marvel indeed.

The wonder was increased by the coming of the kerosene lamp with the chimney to give it dignity and to aid in more perfect combustion—a necessary improvement indeed, for the lamps of this early time were smoky and ill-burning enough.

It is to Ami Argand though, a Frenchman whose name still remains to us in the "Argand burner," that we really owe our modern lamp—but so changed and developed is its present form as to be scarcely recognizable as his invention of 1789; but out of the principle which he was the first to apply has grown our lamp of to-day.

But the spirit of progress, not content with the improvements it had made, soon found an outlet for its activity in the invention of gas, and at once our dwellings and public buildings—yes, and our streets themselves, grew brighter and more cheerful under the play of countless gas jets. Surely nothing more than this was left to be desired either in efficiency or convenience, and for a little time inventive skill seemed content with its accomplishments. But the climax of invention was yet to come, the fame of which was to redound to the credit of our own country, for this wonder of our time; the application of electricity to the various forms of lighting, is an exclusively American invention. It would be natural to say that here, at least, the power of inventive faculty has reached its limit and beyond this it can never go, but it needs no great gift of imagination to foresee that the skill which has already wrought such wonders will not rest and that the future will see other products of its labors as wonderful, perhaps, to another generation as these have been to ours.

In the industrial world a similar activity has been made necessary in order that trade should keep pace with science and furnish to the world the increased conveniences which invention has made possible. To meet this growing demand in the line of modern lighting, a number of Canadian firms have entered into the manufacture and sale of fixtures suitable for using with either gas or electricity, and have so far developed the industry that, whereas a few years ago the majority of these goods were imported from the United States, to-day the demand is almost entirely supplied by Canadian-made goods. The leading hardware, plumbing and electrical supply houses of Canada have aided in the growth of the lighting business and it has brought an added source of revenue and trade to them.

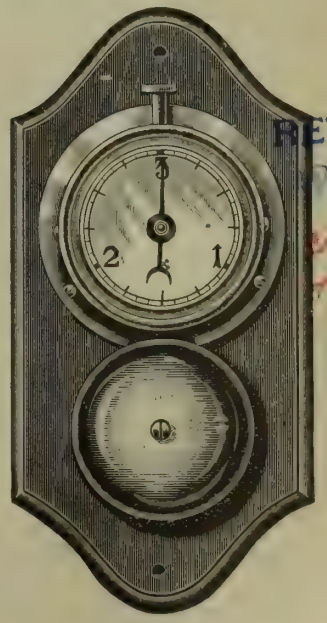
Reference was made in a recent number of this paper to the showrooms McDonald & Willson, one of these manufacturers, have fitted up in Toronto and Montreal for the display of their goods, and which were unquestionably a credit to the firm. It is a question if in the completeness of their appointments and their general artistic effect the display rooms are excelled by any in America. We present herewith flashlight photos showing the interior arrangement of a section of these showrooms, of which, however, a proper idea can hardly be formed except by personal inspection.

A PROFITABLE LINE.

Put in more electric bells this year. They are almost a necessity in a large house, yet there are many homes in smaller towns that do not have them. There is a good profit in electrical goods of all kinds. These pocket flash lamps are growing in popularity. Why not sell a few of these?

TELEPHONE CLOCK.

A NEW device which has been placed on the market is an electric telephone clock. As will be noticed by the accompanying illustration the clock with an alarm is mounted on a piece of wood, which in turn is supposed to be placed near the telephone. Although practically a new article it has been found to be of great value by users of the long distance telephone. The mechanism is simple. All that is necessary is to press the pin above the figure 3, which winds the clock. It will then run for three minutes and at the expiration of this time the alarm will sound thereby giving the speaker an idea



Telephone Clock.

of what length of time he has been using the telephone. This device should be readily appreciated by these people, as it will materially help to check the charges of the telephone company. It is guaranteed to be perfectly accurate and will stand the strain for scores of years.

MARKETS AND MARKET NOTES

(For detailed prices see Current Market Quotations, page 58.)

Quebec Hardware Markets.

Office of HARDWARE AND METAL,
232 McGill Street,
Montreal, April 28, 1905.

MAJORITY of local wholesale houses are taking advantage of the partial opening of navigation and are shipping large consignments of goods by water. This is particularly noticeable with the ports lying on the St. Lawrence River east of Montreal and those bordering on the Gulf. The canal on the river above the city is still blocked, and navigation to western ports is not expected to open until the first week in May. Now that the season has become so far advanced the majority of orders received call for immediate shipment. The orders which have been received during the past eight or ten days are well assorted, which tends to show that the retail merchants must have a good sale for everything in stock. Garden hose, lawn mowers and garden shears have each an excellent demand. Prices in each of these three cases are firm, but no advance is expected. The continued steadiness of prices during the entire Spring trade has restored to the general retail merchant absolute confidence, inasmuch as he is purchasing larger consignments of goods more frequently. Plaster which was so scarce a few weeks ago is now becoming more plentiful, as the railroad is in a better position to forward cars.

Axes—Conditions continue unchanged. A few orders are arriving, but the bulk of the business will probably be booked during August or September. Our quotations are as follows: Chopping axes, unhandled, $6 to $9.50 a dozen; double bitt axes, $9.50 to $12 a dozen; handled axes, $7.50 to $9.50; Canadian pattern axes, $7.50 a dozen.

Handles — A better demand for handles has originated, and trade this week has an appearance which is brighter and healthier than it has been for some time. We quote the following: Axe handles, No. 3, $1.25; No. 2, $1.50; No. 1, $1.90 a dozen; adze handles, 34 inch, $2.20 a dozen; pick handles, No. 2, $1.70; No. 3, $1.50 a dozen.

Sewing Machines—A demand that is far in excess of former years is prevalent this Spring. Good prices have been obtained for the majority of sales transacted this Spring. We quote: Hand sewing machines, $11 each net; complete machines with stand, $18 and up, according to quality.

Lanterns—Wholesale jobbers still withhold from booking any orders for 1906, fearing that prices may advance, and as a result trade has a tendency to be quiet. We quote the following prices: Cold Blast, $4.50; No. 0 Safety, $3.50.

Barb Wire—A large number of orders are being booked for barb wire. No delay has been caused on the part of the manufacturer in shipping orders, which is probably due to the fact that a large amount of wire was held by the wholesale houses at the close of last season. Prices are firm, but no advance is anticipated. We quote: $2.75 for 100 lbs. f.o.b. Montreal; $2.37 1-2 f.o.b. Cleveland. Carlots of 15 tons, $2.25 f.o.b. Cleveland.

Fence Staples—The anticipation of a large outlay for wire fencing on the part of the agriculturists of Ontario, the Western Provinces and the Territories has warranted the retail merchants in those districts in booking some large orders for staples. We quote: $2.65 per 100 lbs. keg, for bright, and $3 for galvanized; 25 to 50 lb packages 25c. extra.

Rivets and Burrs—Conditions of trade remain the same. Prices are firm and the confidence won thereby has resulted in a fair amount of orders being booked. Best iron rivets, section, carriage and wagon box, black rivets, tinned do., copper rivets and tin swede rivets, 60, 10 and 10 per cent.; swede iron burrs are quoted at 60 and 10 and 10 per cent. off new lists; copper rivets with the usual proportion of burrs, 45 per cent. off; and coppered iron rivets and burrs in 5 lb. carton boxes at 60 and 10 and 10 per cent.; copper burrs alone, 30 and 10 per cent., subject to usual charge for half-pound boxes.

Screws—The heavy demand for screws has made it difficult to obtain the sizes which are most frequently used. Trade this Spring is better than has been for some years past. Our quotations are as follows: Round head, bright, 82 1-2 per cent.; flat head, bright, 87 1-2 per cent.; brass, round head, 75 per cent.; brass, flat head, 80 per cent.

Bolts and Nuts—A slow delivery on the part of the manufacturers is also noted in reference to bolts and nuts. This is probably another phase of the increase in the demand. Although prices are firmer than they have been for some time no advance is anticipated.

Wire Nails—The outlook for a good building season is probably the best cause for the large increase in the demand. The increase in the number of manufacturing plants in Canada has led to a rumor that prices may decline on account of the keen competition. If such a change does occur it is not likely that it will remain so very long, as the present price is as low as the manufacturers can afford. We quote the following: $2.25 a keg, f.o.b., Montreal.

Cut Nails—A fair amount of orders are arriving, but the number is not as large as in former years. This condition is probably due to the fact that wire nails have the preference in many cases hitherto held by the cut nail. Prices continue unchanged, namely, $2.20 a keg, f.o.b., Montreal.

Horseshoes—No further advance in steel shoes has been recorded. Orders still continue to arrive, but not as frequently as previously, due probably to the fact that the majority of retail merchants have completed their stock. We quote: P.B. New Pattern, base price, $3.50 per hundred pounds; M.R.M. Company latest improved pattern iron shoes, light and medium pattern, No. 2 and larger $3.65, No. 1 and smaller $3.90, snow pattern, No. 2 and larger $3.90, No. 1 and smaller $4.15. Light steel shoes, No. 2 and larger, $3.90, No. 1 and smaller $4.15; featherweight, all sizes 0 to 4, $5.50; toe weight, all sizes 1 to 4, $6.75. Packing—Up to three sizes in a keg ten cents per hundred pounds. More than three sizes twenty-five cents.

Horsenails—The conditions which have been prevalent on this market for the past few weeks continue unchanged. No change has occurred in connection with the price list.

Sporting Goods—There is a strong tendency at present for an advance in single-barrel shot guns. A new list has been issued in regard to Canadian-manufactured shells. Our quotations are: Canadian-made shells, black, 25 and 5 per cent.; smokeless, 25, 10 and 5 per cent.; American centre-fire cartridges, list net; sporting and military, 10 per cent. advance on list; primers, $2.05 per thousand; American loaded shells, 20 per cent. discount; B. B. caps, $2 per thousand; C. B. caps, $2.60 per thousand; standard shot, $6.50 per hundred lbs.; chilled, $7 per hundred lbs.; buck and steel, $7.50 per hundred lbs.; ball, $8 per hundred lbs. We quote discounts 15 per cent. on shot f.o.b. Montreal, Toronto, Hamilton, London, St. John, and Halifax.

Building Paper—Orders continue to arrive as frequently as heretofore. Prices are firm and continue unchanged.

Cordage—Rope for vessel and yacht purposes still continues to have a good demand. Sisal rope has also a good demand. Prices are firm.

Cement and Firebrick—Cement on the local market has a good demand. The opening of navigation has resulted in the decline of foreign cement. Fire-

PORTLAND CEMENT

DRAIN PIPES, CULVERT PIPES,
SEWER BRICKS, INVERTS,
FIRE BRICKS, FIRE CLAY,
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Made from carefully selected Lake Superior Ores, with Connellsville Coke as Fuel, "Midland" will rival in quality and grading the very best of the imported brands.

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THE "VANDA" BRAND
For all purposes requiring the best quality.
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Wholesale Merchants
Ormidale Block, Vancouver, B.C., and
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Metals of every description, Wire Rope, Portland Cements, Firebricks, Ore Sacks, Grain Bags, etc, etc.

brick continues unchanged. Scotch is scarce and prices are firm, but no advance is expected, as large shipments are expected to arrive within a few days. Our quotations are as follows: English cement, $1.90 to $2.00; Belgium, $1.60 to $2.00 per barrel ex store; and American, $2.00 to $2.10 ex cars; Canadian Portland, $1.90 to $2.00. Firebrick, English and Scotch, $18.00 to $22.00; American, $30.00 to $35.00.

Coiled Chain—A fair demand exists at present. The principal demand which is received from the lumbering camps is not expected to start until the end of July. We quote: 5-16 inch, $4.25 3-8 inch, $3.75; 7-16 inch, $3.55; 1-2 inch, $3.35; 9.16 inch, $3 .30; 5-8 inch, $3.20; 3-4 inch, $3.05; 7-8 inch, $3; 1 inch, $2.95.

Green Wire Cloth—The demand for this article still continues to be good. It is rumored that some delay may be caused in shipping orders owing to a fire at the manufacturing point. We quote the following: Per hundred square feet, $1.50.

Poultry Netting—It is reported that sales this year are far in excess of former years. Prices are firm, but no change is expected. Discounts for two-inch nineteen gauge standard and sixteen gauge extras at 60 per cent.

Spring Hinges—A good demand continues. Prices continue unchanged. We quote the following: No. 5, $7.25 per gross: No. 19 $18 per gross; No. 20, $18.80 per gross; No. 120, $20 per gross; No. 51, $9.25; No. 50, $27.50.

Ontario Hardware Markets.

Office of HARDWARE AND METAL,
10 Front street east,
Toronto, April 28, 1905.

BRISKNESS is evident this week in the hardware trade, the effects of the good weather being felt by all the jobbers. Farmers seem to be buying in large quantity, as the merchants are rushing in orders for general lines in which their stocks are depleted. Trade is picking up in mowers, rakes, forks, etc., while the demand for building supplies continues very active.

Lawn Mowers—More business is being done, and the demand is likely to be large this year.

Sporting Goods—Fishing tackle is in strong demand, as is also powder for gun clubs.

Washing Machines — The demand continues steady, although the Spring rush is over.

Chain—There is still an active call for chain, particularly for the small sizes used in the agricultural districts. We quote: 1-4 inch, $6.50; 5-16 inch, $4.45; ⅜ inch, $3.85; 7-16 inch, $3.70; ½ inch, $3.55; 9-16 inch, $3.45; ⅝ inch, $3.35; ¾ inch, $3.25.

Step Ladders—The demand continues very good, and a large movement of goods is reported. We quote at 10c. per foot for 3 to 6 feet, and 11c. per foot for 7 to 10 feet ladders.

Extension Ladders—Sales are re-

SANDERSON'S TOOL STEEL

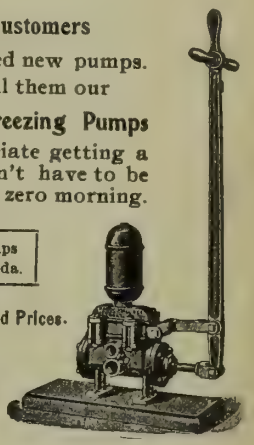
"The most reliable tool steel on the market."

LARGE ASSORTMENT IN STOCK.

A. C. LESLIE & CO.
MONTREAL.

Ask your customers
if they don't need new pumps.
If they do, sell them our
Standard Anti-Freezing Pumps
They'll appreciate getting a pump that doesn't have to be thawn out every zero morning.

McDougall Pumps
—Made in Canada.



Write for Catalogue and Prices.
The
R. McDougall Co.
Limited
Galt, Ont.

BAINES & PECKOVER
TORONTO.
Ontario Agents for
B. K. MORTON & CO.'S
"ALPHA"
HIGH SPEED STEEL
AND
Crucible Cast Steel
Large stock on hand. Send for Stock List

NOVA SCOTIA STEEL & COAL CO., Limited
NEW GLASGOW, N.S.
Manufacturers of
Ferrona Pig Iron
And SIEMENS-MARTIN
OPEN HEARTH STEEL

ported to be fairly large. Waggoner, 40 per cent. off list.

Galvanized Wire—Quite a trade still exists with the same quotations ruling. We quote: $2.37½ f.o.b. Cleveland.

Coiled Spring Wire—Prices remain stationary, the demand continuing quite strong.

Barb Wire—Little falling off is noted, although the bulk of the business has been placed. A large trade is expected this year.

Wire Nails—The nail trade continues very good, prices being unchanged. Nominal quotations are $2.25 f.o.b. Toronto.

Cut Nails—The call for cut nails continues steady. Prices remain firm. Quotations are $2.40 per keg f.o.b. Toronto.

Horseshoes—The demand continues quite active. We quote: "P. B." base, $3.65; "M.R.M. Co., latest improved pattern" are: Iron shoes, light and medium pattern, No. 2 and larger, $3.80; No. 1 and smaller, $4.05; snow No. 2 and larger, $4.05; No. 1 and smaller, $4.30; light steel shoes, No. 2 and larger, $3.95; No. 1 and smaller, $4.20; featherweight, all sizes, 0 to 4, $5.50; toe weight, all sizes, 1 to 4, $6.75. If shipped from factory 15c less.

Horsenails — There is a very good demand, and prices remain unaltered.

Screws—Orders are being received in fair quantity. Prices are unchanged.

Rivets and Burrs—Trade continues active, prices remaining as before.

Bolts and Nuts—Call for goods continues active, it being too early for any shortage to be noted.

Woodenware—All lines are moving well.

Cordage—Business is being booked in large volume. Quotations continue: Binder twine, Blue Ribbon, 12 1-2c.; Red Cap, 11½c; Tiger, 10½c; and Standard, 9½c; manila, 14½c; British manila, 11c; sisal, 10½c; double lathyarn, 10½c; single lathyarn, 10c; sashcord, "Hercules," 30 to 32c; "Star," 36 to 38c; cotton twine, 3-ply, 24c; 4-ply, 29c; calking cotton, 16½ to 17c; cotton waste, colored, 6½c; white, 11 to 13c.

Cement—A large volume of business is being done, the Canadian lines meeting with little competition from the Americans. We quote: For carload orders f.o.b. Toronto, Canadian Portland, $1.65 to $1.75; American Portland, $1.65 to $1.75. For small orders, ex warehouse: Canadian Portland, $2; American Portland, $2.

Firebrick—A fair demand is reported, the opening of the building season having increased the volume of business. Our quotations are as follows: English and Scotch firebrick, 30 to 35c; American, low-grade, 25 to 30c; high-grade 32½ to 40c.

Building Paper—Trade in all classes of building materials is brisk. The rush in the building trade has made business active, and a large total is expected for the season.

Hides, Tallow, Skins and Wool.

The market continues quiet with receipts small, and practically no change except in country hides, flats, which have advanced 1-4c., and deacons, dairies, which are 5c. higher than they were last week. We quote the following prices:

Hides, No. 1 green steers, per lb	0 09	
" " 2 " "	0 08	
" No. 1 green, per lb	0 08½	
" " 2 " "	0 07½	
Country hides, flats, per lb	0 07	0 07½
Calf skins, No. 1, selected		0 11
" " No. 2		0 09
Deacons (dairies), each		0 80
Sheep skins		1 25
Rendered tallow, per lb	0 04	0 04½
Unwashed wool, new clip, per lb	0 13	0 12
Pulled wools, super, per lb	0 21	0 23
" " extra "	0 22	0 24

METAL MARKETS AND MINING NOTES

NOW that the opening of navigation has arrived the trade in Montreal has a brighter aspect. Large consignments of pig iron from Scotland and England are expected to arrive during the next few days. The amount arriving this Spring will not be as large as in former years, owing to the high duty, thereby being unable to compete with our market. This condition will also have an effect on the changing of the prices, inasmuch as no decline is expected as in former years, on account of the small quantity that is expected to be used. The American iron is expected to have more effect on the local market as it is in a better position to compete more favorably with the Canadian brand. But this, according to the estimation of local dealers, will not have much effect as the duty at present is materially high enough to act as a guide to the price set by the Canadian furnaces. Users of metals, and retail dealers handling steel, tin plates, galvanized iron, and such lines, residing on the St. Lawrence River and Gulf, are now sending forward orders as the freight rates will be much lower for the next few months than heretofore.

In Toronto a good business is reported at close prices, the competition being very keen. Stocks are low, but with the opening of navigation another fortnight will see them replenished. Prices continue firm in all lines, the general activity preventing any marked change. A good season is expected, the large amount of building giving a stability to the market. The increased activity in the iron trade of Canada is shown by the announcement made by the Canada Iron and Furnace Co., that it will increase the output of its plant at Midland, Ont., by from 20 to 25 per cent. The increase, it is officially stated, is to meet the larger orders being received from Canadian companies for pig iron and other kinds of iron.

Quebec Metal Markets.

Office of HARDWARE AND METAL,
232 McGill Street.
Montreal, April 28, 1905.

Pig Iron—Orders are beginning to come forward more freely. Prices continue unchanged. We quote the following:

"Disc," No. 1	$16.50	delivered Montreal.
"Dom.," No. 1	17.50	" "

Usual difference in price for lower grades.

Ferrona No. 1	$18.00	delivered Montreal.
" No. 2	17.50	" "
" No. 3	16 50	" "
" No. 4	16.00	" "
Londonderry	$18.50 to $19.00	" "
Glengarnock	20.00	" "
Gartsherrie	19.25	" "
Carnbroe	18.50	" "
Carron No. 1	20.00	" "
" (special)	19.00	" "
Ayresome No. 1	18.50	" "
" No. 3	18.00	" "
Summerlee	20.00	" "
Clarence No. 1	18.00	" "
" No. 3	17.50	" "
No. Cleveland	18.00	" "

Bar Iron—Trade is brisk. Prices are firm, but continue unchanged. Our quotations are as follows: Merchant bar, $1.80; horse-shoe iron, $2.02½; forged iron, $2.05; best refined iron, $2.20 net cash thirty days.

Tool Steel—Tool steel has a better demand. Numerous orders have been forwarded by boat during the past few days. A large number of orders are being received from the Lower Provinces. We quote: Colonial and Black Diamond, 8c to 9c; Sanderson's, 8c to 45c, according to grade; Jessop's, 13c; Jonas & Clover's, 10c to 20c; "Air Hardening," 65c per lb.; Conqueror, 7½c; Conqueror High Speed steel, 60c.

Merchant Steel—There is an increase in the demand, and dealers are anticipating a good trade in this particular line of steel. Prices are firm, but no advance is anticipated. We quote: Sleigh shoes, $1.97 1-2: tire, $2.07 1-2; spring, $2.75; toecalk, $2.65; machinery iron finish, $2.10; reeled machinery steel, $2.75; mild, $2 and upwards; rivet, $2.00 and upwards. Net cash thirty days.

Cold-Rolled Shafting—Conditions on this market remain the same. We quote as follows: Cold-rolled shafting, 3-4 inch to 17-16, $3.85 per 100 lbs.; inch and a half to 3 inch, $3.50 per 100 lbs.

Canada Plates—During the past week a decline of 20c. on black plates has taken place. This change is attributed to the keen competition. We quote the following: 52's, $2.35; 60's, $2.40; 70's, $2.45; full polished, $3.60; galvanized, 52's, $3.90 to $4.00; 60's, $4.15 to $4.25.

Black Sheets—A better demand is in progress. With this exception conditions continue unchanged. Our quotations are: 28 gauge, $2.15; 26 gauge, $2.10; 22-24 gauge, $2.05; 19-20 gauge, $2.20; 8-10 gauge, $2.30.

Galvanized Iron—Retail merchants are ordering more freely, now that the cheapest freight rates likely to occur during the Summer have been enforced. Prices continue unchanged. Our quotations are as follows: Queen's Head, 28 gauge, $4.15; 26 gauge, $3.90; 22 to 24 gauge, $3.65; 16 to 20 gauge, $3.55; Apollo, 28 gauge, $4; 26 gauge, $3.75; 22 to 24 gauge, $3.75; 16 to 20 gauge, $3.40; Fleur-de-Lis, 28 gauge, $4; 26 gauge, $3.75; 22 to 24 gauge, $3.50; 16 to 20 gauge, $3.40; Comet, 28 gauge, $3.95; 26 gauge, $3.70; 22 to 24 gauge, $3.45; 16 to 20 gauge, $3.40; Bell brand, 28 gauge, $4; Gorbal's "Best Best," 28 gauge, $4.15; "Windmill Best," 28 gauge, $3.95; Sword and Torch, 28 gauge, $4.05, in less than case lots, 25c extra.

Antimony—Conditions on the anti-

mony market continue unchanged. Our quotations are from 9c. to 9 1-2c.

Sheet Zinc—A good demand is prevalent. Some dealers report a weakening of the prices, but as yet no change has occurred. We quote the following: Case lots, $7.00; small lots, $7.25.

Tin Plates—The good demand of this market continues to be steady. Large consignments have been forwarded to the manufacturers of tin nails, cans, etc. Prices continue unchanged. Our quotations are as follows: Cokes, $3.75; charcoal, $4.00.

Ingot Tin—The tin market has become firmer, and a slight advance is a consequence of the change. The present prices range from 33 1-2c. to 34c.

Ingot Copper—Some dealers report that the market is easier, while others maintain that there is no change in the condition. Prices continue unchanged, and at present there is no indication that will warrant one. We quote the following: 16 1-4c. to 16 1-2c.

Ingot Zinc—A decline of one-quarter cent. is the most noteworthy feature in the market this week. Orders continue to arrive and move freely. We quote: 6 1-2c. to 6 3-4c.

Pig Lead—An increase in the output is probably the best reason for the decline of 10c., which took place during the past week. We quote the following: From $3.40 to $3.50, no concessions being obtainable.

Boiler Tubes—No change has occurred on this market. Prices remain firm. Our quotations are as follows: British and American tube, 1 1-2 inch, 8 1-2c; 2 inch, 8½c; 2½ inch, 10c; 3 inch, 12½c; 3½ inch, 16c; 4 inch, 20c; 5 inch, 45c. Price per foot net.

Scrap Metal and Old Material—It is rumored that the English market has become easier. The change is more noticeable in scrap metals. Yellow brass still continues to be in good demand, and as nothing of importance has occurred to suggest that supplies are more liberal, prices continue to be firm. Zinc still has an upward tendency but nothing has occurred during the past week to warrant a change. No change is likely to occur on the local market as a result of the weakened condition of the English and American markets. We quote: Heavy copper and wire, 12 3-4c.; light copper, 11 1-2c; heavy red brass, 10 1-2c.; yellow brass, from 8 3-4c. to 9c.; light brass, 7c.; lead, 2 1-2c.; zinc, 3 3-4c.; machinery cast scrap, $14.00; wrought scrap, $14.00; stove-plate scrap, $11.00; No. 1 country rags, 75c. to 90c. per hundred lbs.; old rubbers, 5c.

Ontario Metal Markets.

Office of HARDWARE AND METAL,
10 Front street east.
Toronto, April 28, 1905.

Pig Iron—The market holds firm with a steady demand. We quote:

Middlesboro, f.o.b., Toronto	$21 00	$21 50
Hamilton, No. 1, at furnace	18 00	18 50
" No. 2, "	17 50	18 00
Midland, No. 1, "		18 50
" No. 2, "		18 00
Radnor, at furnace		33 00
Londonderry, at furnace	16 50 to	17 00

Bar Iron—Prices remain firm, the demand being fairly strong. Quotations continue as follows: $1.90 f.o.b. Toronto, with discount of 2 per cent.; for extras as cut to length, while rolling, 2 feet and over, 10c per 100 lbs.; 1 foot and under 2 feet, 15c; under 1 foot, 20c; over 20 feet, by special agreement according to length and size.

Tin—A good trade is being done with stocks reported light. We quote from 33 to 34c. per lb.

Galvanized Sheets—Firmness is evident, the call for goods being heavy and prices the same.

Tin Plates — The market continues very active and prices firm.

Canada Plates—No change is reported in prices. An active demand is reported.

Brass—An active demand exists, and prices continue firm. Discounts are 10 per cent.

Lead — The market is not so strong, although a fair business is being done. We still quote: Pig lead, $3.80 per 100 lbs., and bar lead, $4.80 per 100 lbs.

Zinc Spelter—The market continues quiet. Quotations are: 7c. per lb. for foreign and 5½ to 5¾c per lb. for domestic.

Copper—The demand for copper ingots continues strong. Prices remain as follows: Ingot copper, 16 1-4c. per lb. and sheet copper, 21c per lb.

Antimony—A fair movement is reported. No changes are noted in quotations.

Old Material—Prices are weakening, and a decline is looked for in many lines. We quote: Heavy copper and wire, 13c per lb.; light copper, 11½c per lb.; heavy red brass, 10½c per lb.; heavy yellow brass, 9c per lb.; light brass, 7c per lb.; tea lead, $2.40 per 100 lbs.; heavy lead, $2.60 per 100 lbs.; scrap zinc, 4c per lb.; iron, No. 1 wrought, $10 to $11; No. 2 wrought, $3 to $5; machinery cast scrap, $14; stove plate, $10; malleable and steel, $5; old rubbers, 5c per lb.; country mixed rags, 65c per 100 lbs.

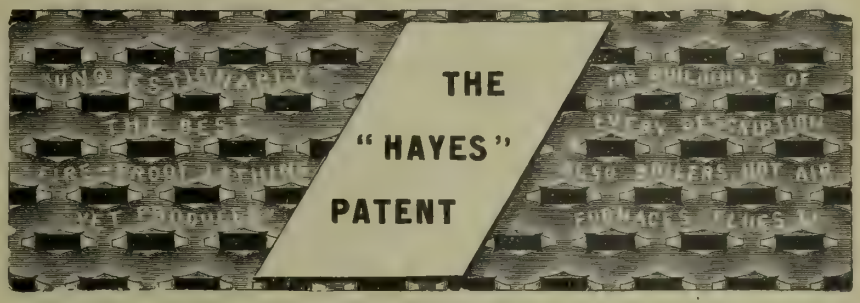
Coal—Hard coal continues in fair demand, while little business is done in soft coal. New contracts are being booked, however, and coal is arriving by water. Quotations are as follows: Anthracite in cars at bridges: Grate, $5 per gross ton; egg, stove and nut, $5.25 per gross ton; pea, $3 per gross ton.

Standard Hocking, soft coal, in cars, f.o.b. at mines: Lump, $1.35; ¾ inch, $1.25; run of mine, $1.05; nut, 90c; N. P. and S., 60c., coarse slack, 40c; box cars 10 cents per ton additional.

Youghiogheny soft coal in cars, bonded, at the bridges: 1¼ inch, $2.45; ¾ inch, $2.35; mine run, $2.25; slack, $1.90.

For Manitoba Metal Markets see page 38.

METAL LATH



Requires less mortar and 90 per cent. less labor than the inferior varieties that have been stretched until they have little strength left.

The "Hayes" is rigid. It makes a perfect job.

It costs less when applied and plastered than any other. We make it.

You can make money selling it.

THE METALLIC ROOFING CO., LIMITED
TORONTO

AMMONIA FREEZER WANTED.

A Winnipeg hardware house received this week from a customer a request for an ice-cream freezer which would do its work without ice. Can any reader of Hardware and Metal supply the information wanted?

FAIRBANKS FACTORY FOR TORONTO.

The new Canadian Fairbanks Co. are endeavoring to secure a site for a large factory in Toronto, the announcement having been made in these columns some weeks ago that in future the Fairbanks scales would be "Made in Canada." No definite arrangements have been concluded, but the company look with favor upon a nine acre site on Perth avenue, between the Grand Trunk and Canadian Pacific Railway tracks. Toronto has the best chance of securing this new industry, which will employ between 200 and 300 men to commence with, and about 500 when the whole works are in running order. The deal is expected to be closed during the coming week. The proposed purchase of the factory at Valleyfield, Quebec, is evidently being held in abeyance pending the negotiations for a site in Toronto.

HARDWARE CONDITIONS IN MANITOBA.

(Market quotations corrected by telegraph up till 12 a.m. Friday, April 28, 1905.)
Office of HARDWARE AND METAL
Room 406 McIntyre Block,
Winnipeg, Man.

PORTAGE LA PRAIRIE COUNCIL have awarded the Manitoba Iron Works Co., of Winnipeg, a contract to supply piping for $8,665.

* *

The J. H. Ashdown Hardware Co. intend adding four additional storeys to their retail store on Main street during the present season.

* *

A meeting of the Ashdown Baseball Club was held recently at which the following officers were elected: Hon. president, J. H. Ashdown; president, A. Buehler; vice-presidents, T. P. McIntyre, J. Enslie and J. A. Lindsay; secretary-treasurer, R. H. Conley; playing manager, Charles Rutley; executive committee, E. C. Ford, G. Bell and W. F. Auger; mascots, C. Munn and C. Rice.

* * *

J. E. McRobie, the new secretary-treasurer and organizer of the Retail Hardware Association, writes Hardware and Metal that he is meeting with a gratifying reception from the trade. Hardwaremen are joining the association, and the organization work is proceeding satisfactorily. Incidentally, it might be mentioned that at the date of his letter Mr. McRobie had failed to find a single hardware merchant who was not a subscriber to Hardware and Metal.

* *

Business is very active, and in almost all cases values are steady. Linseed oil has been advanced, but turpentine remains unchanged.

* * *

Screen Wire Cloth—Spring trade is brisk. The price is $1.55 per 100 square feet.

Poultry Netting—Prices for 2-inch mesh netting in No. 19 gauge wire are as follows:

24-inch roll, per roll	$1 20
30 " "	1 50
36 " "	1 80
48 " "	2 40
60 " "	3 00
72 " "	3 60

Wire—Prices are steady and business is brisk. We quote:

Barbed wire, 100 lb	$2 85
Plain galvanized.....6 to 8	3 39
" 9 2 50	2 90
Plain galvanized.....10	3 50
" 12	3 10
" 13	3 20
" 14	3 90
" 15	4 45
" 16	4 60
Plain twist	2 85
Staples	3 35
Oiled annealed wire.....10	2 96
" 11	3 02
" 12	3 10
" 13	3 20
" 14	3 30
" 15	3 45

Annealed wires (unoiled) 10c. less.

Horseshoes—Trade is brisk. Prices continue as follows:

Horseshoes, iron, No. 0 to No 1	$4 55
No. 2 and larger	4 30
Snow shoes, No. 0 to No. 1	4 80
No. 2 and larger	4 55
Steel, No. 0 to No. 1	4 65
No. 2 and larger	4 40

Horsenails—Discounts are as follows: "C" brand 40, 10 and 7 1-2 per cent., "M" brand and other brands 55 and 60 per cent. Add 15c. per box.

Nails—There is still considerable competition in the wire nail market. Base price of both wire and cut nails is still $3.00 per keg.

Screws—Business is very brisk, and some sizes are reported scarce. We quote discounts as follows:

Screws, flat head, iron, bright	85 and 10 p.c.
Round " "	80 p.c.
Flat " brass	75 and 10 p.c.
Round " "	70 and 10 p.c.
Coach	70 p.c.

Nuts and Bolts—We quote following unchanged discounts:

Bolts, carriage, ¾ or smaller	60 and 5 p.c.
" 7-16 and up	55 p.c.
Bolts, machine, ¾ and under	55 and 5 p.c.
" 7-16 and over	55 p.c.
Bolts, tire	65 p.c.
Bolt ends	55 p.c.
Sleigh shoe bolts	65 and 10 p.c.
Machine screws	70 p.c.
Plough bolts	55 p.c.
Square nuts, case lots	3c. discount.
" " small lots	2½c. "
Hex " case lots	3c. "
" " smaller lots	2½c. "

Rivets—Discounts continue as follows:

Rivets, iron	60 and 10 p.c.
Copper, No. 8	29½
" No. 12	33

Coil Chain—As noted last week, the price of 3-4 inch chain has been reduced to $4.00. Other prices are as before. We quote:

Coil chain, 3-16 inch	9.25
" ¼ inch	7.25
" 5-16 inch	5.20
" ⅜ inch	4.60
" 7-16 inch	4.45
" ½ inch	4.30
" ⅝ inch	4.10
" ¾ inch	4.00

Shovels—Discounts on spades and shovels continue 40 and 5 per cent.

Harvest Tools—Discount 60 per cent.

Axe Handles—No change in price. We quote again as follows:

Axe handles, turned, s.g. hickory, doz	$3 15
No. 1	1 90
No. 2	1 60
Octagon extra	2 30
No. 1	1 60

Axes—We quote:

Axes, chopping	$ 6 75 to 12 00
" double bitts	12 00 to 18 00

Files—We again quote as follows:

"Arcade"	70 and 10 p.c.
"Black Diamond"	60 p.c.
"Nicholson's"	62½ p.c.

Building Paper—All grades of building paper are in brisk demand. We quote:

Anchor, plain	65c.
" tarred	70c.
Pure fibre, plain	67½c.
" " tarred	80c.

Ammunition, Etc.—We again quote:

Ammunition, cartridges, Dominion R.F.	50 and 5 p.c.
Dominion, C.F., pistol	30 p.c.
" military	15 p.c.
Ammunition, cartridges, American R.F.	33⅓ p.c.
C.F. pistol	5 p.c.
C.F. military	10 p.c. advance.
Loaded shells:	
Eley's and Kynoch's soft, 12 gauge	
black	15 00
chilled, 12 gauge	16 00
soft, 10 gauge	18 00
chilled, 10 gauge	19 00
Shot, Ordinary, per 100 lb	6 25
Chilled	6 75
Powder, F.F., keg, Hamilton	4 75
F.F.G., Dupont's	5 00

Tinware, Etc.—We quote again as follows:

Tinware, pressed, retinned	70 and 10 p.c.
" " plain	75 and 2½ p.c.
" pieced	30 p.c.
Japanned ware	37½ p.c.
Enamelled ware, white	45 p.c.
" Famous	50 p.c.
" Imperial	50 and 10 p.c.

Cordage — Prices are unchanged. We quote:

Rope, sisal, 7-16 and larger, basis	11 25
Manila, 7-16 and larger, basis	15 25
Lathyarn	11 25

Solder—Quoted at 21 cents per lb.

Bluestone—Price is $5.75 per cwt.

Iron and Steel—Prices are steady. We quote:

Bar iron (basis)	2 50
Swedish iron (basis)	4 75
Sleigh shoe steel	2 65
Spring steel	3 00
Machinery steel	3 50
Tool steel, Black Diamond, 100 lb	9 50
Jessop	13 00

Black Sheets—No change in price. Quotations are:

Black sheets, 10 to 16 gauge, 100 lb	3 50
18 to 22 gauge	3 75
24 gauge	3 90
26 gauge	4 00
28 gauge	4 10

Galvanized Iron—No change in price since last issue. We quote again as follows:

Apollo, 16 gauge	4 00
18 and 20 gauge	4 00
22 and 24 gauge	4 25
26 gauge	4 25
28 gauge	4 50
30 gauge or 10¼ oz	4 75
Queen's Head, 24 gauge	4 25
26 gauge	4 50
28 "	4 75

Tin Plates—Prices are steady. We quote:

Tinplate, IC charcoal, 20 x 28, box	9 50
" IX "	11 50
" IXX "	13 50

Ingot Tin—Quoted at 35 cents.

Canada Plates—Trade is still very active. We quote:

Canada plate, 18 x 21, 18 x 24	3 25
Canada plate, 20 x 28	3 50
Canada plate, full polished	4 00

Sheet Zinc—The price of cask lots is $8.25 per 100 lbs: price of broken lots is $8.75.

Pig Lead—$4.50 per 100 lbs.

Iron Pipe—We quote:

Black iron pipe, ⅛ inch	....
" ¼ "	2 45
" ⅜ "	2 65
" ½ "	3 00
" ¾ "	3 80
" 1 "	5 50
" 1¼ "	7 45
" 1½ "	8 95
" 2 "	12 30

Petroleum—No change in prices. We quote:

Silver Star, per gal	20½c.
Sunlight "	21½c.
Eocene "	23½c.
Pennoline "	24½c.
Crystal Spray "	23½c.
Silver Light	21½c.

(In barrels f.o.b. Winnipeg.)

Paris Green—In seasonable demand. We quote:

English Paris Green—Petroleum barrels, 14 1-4c.; arsenic kegs, 14 1-2c.; 50 and 100-lb. drums, 15c.; 25-lb. drums, 15 1-2c.; 1-lb tins, 17c.; 1-2-lb. tins, 19c.; 1-lb. cardboard boxes, 16c.; 1-2-lb. ditto, 18c. Terms 2 per cent. off for cash in 30 days; 90 davs net.

Canadian Paris Green—50-lb drums 17c., bulk 18c.; in 1-lb. packages 20 cents.

Paints and Oils—Linseed oil has advanced 3 cents per gallon. Turpentine is unchanged. We quote:

White lead (pure)	$5 00 to $5 50
Bladder putty, in bbls	0 02½
" " in kegs	0 02¾
Turpentine, pure in barrels	$ 0 84
Less than barrel lots	0 89
Linseed oil, raw	0 58
Boiled	0 61

Window Glass—Prices continue as follows:

16-oz. O.G., single, in 50-ft. boxes—	
16 to 25 united inches	$225
26 to 40 "	2.50
16-oz. O.G., single, in 100-ft. cases—	
16 to 25 united inches	4.00
26 to 40 "	4.25
41 to 50 "	4.75
51 to 60 "	5.25
61 to 70 "	5.75
21-oz.C.S., double, in 100-ft. cases—	6.30
26 to 40 united inches	7.35
41 to 50 "	8.40
51 to 60 "	9.45
61 to 70 "	10.50
71 to 80 "	11.55
81 to 85 "	12.60
86 to 90 "	14.75
91 to 95 "	17.30
6 to 100 "	

INDUSTRIAL PRODUCT PUBLICATIONS.

The Manufacturers List Co., Montreal, issue the following publications:

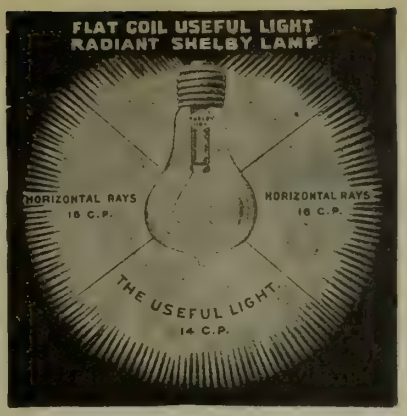
The Canadian Industrial Blue Book, Buyers' Guide of Canada, 1904-7, 576 pages, cloth bound. Price, $5.00.

A Classified Article List of Industrial Products for Canadian Buyers, 1905-6, 400 pages, cloth bound. Price, $2.00. Both books to one address, $5.

As the farmer is the sinew of the country in agriculture, so the merchant and dealer are the sinews of trade and commerce, hence the necessity of a full knowledge of the industries and products of the country in compact form for their information and guidance. Such is the general aim of these publications.

There is a spirit of loyalty permeating the pulse of trade in all countries, and when the essential information on the products of a country is at hand, that loyalty should assert itself for the benefit of home trade and the growth of the country.

The work is under the patronage of the Dominion Government and a large number of our leading manufacturers, and is solely on its merits for the general good of all concerned, and many who are not. —Adv't.



For Useful Light and Economy
USE
SHELBY LAMPS

Produce 50 percent. more useful light than the ordinary type lamp with the same consumption of current.

For sale by all prominent dealers in Electrical Supplies, at the same price as other lamps.

Manufactured by
ONTARIO LANTERN & LAMP COMPANY
Limited
HAMILTON, Ont.
WALTER GROSE, Selling Agent, Montreal.

FOR **STORAGE** IN **WINNIPEG**

Handling and reshipping of goods. Brick warehouse with track facilities

MACKENZIE BROS. WRITE 244 PRINCESS ST. OR P.O. BOX 579 **WINNIPEG.**

PURE MIXED PAINTS

are what the painter wants and will have. If you cannot supply him with them someone else will; nor can you afford to lose his trade by experimenting with something (just as good), for it cannot be had. We also have a large stock of Dry Colors, Oils, etc.

THE WINNIPEG PAINT AND GLASS CO., LIMITED
WINNIPEG, CANADA

THE PURCHASE OF PAINT

means one of two things, permanent satisfaction or early and lasting disappointment.

Stephens' Pure Paint is the result of intelligent, skilful, painstaking care. They are delightful in the beginning and remain so indefinitely.

This name indicates its quality

Stephens

and means that it will be maintained.

Convenient in form, perfect in quality, pleasing in appearance, absolutely pure and very durable.

Every gallon made with Manitoba Linseed Oil.

MANUFACTURED BY

C. F. STEPHENS & CO., Limited,
Paint and Color Makers, - - WINNIPEG, CANADA

CONDENSED OR "WANT" ADVERTISEMENTS.

YEARLY CONTRACT RATES.

100 words each insertion,	1 year		$30 00
" " "	6 months		17 00
" " "	3 months		10 00
50 " "	1 year		17 00
" " "	6 months		10 00
25 " "	1 year		10 00

A GRAND OPENING.

AN Eastern firm manufacturing a full line of ranges, wood cooks, heaters, warm air furnaces, and hot water boilers, are prepared to give the exclusive agency for the sale of their goods in Manitoba and the Territories as far west as Moosejaw to a reliable and progressive stove and furnace dealer, goods to be bought outright. Prices and terms right. Goods already introduced. Apply Box No. 237, Hardware and Metal, Toronto. (17)

MECHANICS WANTED.

YOUNG men who have had some experience at general tinsmithing to learn cornice work and erect metal ceilings. Good openings for several men who are active and quick to learn. State age and experience. Box 239, Hardware and Metal, Toronto. (18)

MANUFACTURERS' AGENT WANTED.

A BIRMINGHAM house, manufacturing electrical fittings and electroliers of low price grade, are seeking an agent to sell for them in Canada, Box 34, Hardware and Metal, Montreal, or Box A, Hardware and Metal, 88 Fleet St., London, Eng.

MACHINERY FOR SALE.

Rates for first insertion 2c. a word, and for subsequent insertions 1c. a word.

ONE second-hand gap lathe; swings 40 in. and 26 in.; 12-ft. 6-in. bed. Address Box 748, Montreal.

ONE second-hand shafting lathe, 26-in. swing, 20-ft. bed. Address Box 748, Montreal.

BUSINESS CHANCES.

HARDWARE business for sale near Regina; stock thirty-five hundred, turnover twelve thousand, profit thirty-five hundred; price seventeen hundred cash, balance arranged. Locators, Business Brokers, Winnipeg, Man.

HARDWARE and implement business, good town N.W.T.; stock seven thousand, new; terms, five thousand cash, balance three, six and nine months. The Locators, Business Brokers, Winnipeg, Man.

HARDWARE store, good Manitoba town; stock fourteen hundred, A1; half cash. Write The Locators, Business Brokers, Winnipeg, Man.

SITUATION WANTED.

SITUATION as junior hardware clerk; four years' experience; best of references; steady and willing; moderate salary required. Box 241, HARDWARE AND METAL, Toronto. (17)

SITUATIONS VACANT.

HARDWARE clerk wanted; must be good salesman and stock keeper; permanent position to the right man; state age, experience and salary expected. The Western Hardware Co, Limited, Regina. (20)

BUSINESS WANTED.

WANTED to purchase—Good hardware business in live town; stock to go $5,000 to $,000. Box 240 HARDWARE AND METAL, Montreal. (18)

PERSONAL AND TRADE NOTES.

The Belleville Hardware Co. is extending its plant by adding two storeys to the present premises. The company is rushed with orders.

Mr. Wm. White, who recently disposed of his hardware business at Acton, has accepted a position as Western traveler for a Guelph stove company.

Mr. A. Fred. Lytle, representing the Canadian Fairbanks Co., of Montreal, in the Province of Nova Scotia, was a visitor at the head office this week.

The Manitoba Hardware Co. intend erecting a commodious building at Reston, Man., to accommodate their increasing business. The cost will be about $16,000.

W. A. Duncan has succeeded Alex. Henry as city traveler in Toronto for the Kemp Mfg. Co., and is now introducing the company's new line of onyx enamelware which is now being put upon the market to compete with Stranskyware.

Mr. G. O. Lees, representing the Canadian branch of Maunder Bros., of Wolverhampton, England, manufacturers of inks and varnishes, has started on a weetern trip, comprising Toronto, Hamilton, Brantford and other Canadian cities.

Mr. Alex. Gibb, dealer in metals and products of metals, Montreal, has left on a business trip to the Eastern States. Mr. Gibb will be gone in the neighborhood of ten days and when away will visit New York, Boston, Philadelphia and Pittsburg.

J. M. Wilson, foreman of the shelf goods department of the J. H. Ashdown Hardware Co., Winnipeg, has purchased a half interest in the firm of F. W. Weir & Co., Winnipeg. Before leaving Ashdown's he was presented with a gold watch and an address by his fellow employes.

The iron warehouse of Butchart Bros. Hardware Co., Owen Sound was destroyed by fire on April 20 together with the contents; also the bicycle store of B. Greenwood. Butchart's loss is estimated at $5,000 partially insured. Mr. Greenwood carried only $500. The Comely house and Butchart's hardware store had a narrow escape.

R. Bogue has opened a grocery and hardware store at Moose Jaw.

Burglars recently robbed the safe of Wells & Co.'s hardware store at Fort Frances, securing about $75 in money.

Birch & Sons, of Roland, have purchased the hardware business of A. F. Wasey, Swan Lake, and H. J. Birch will be in charge.

Mr. W. D. Dixon, hardware merchant, Sprucedale, dropped dead on April 17.

FOR SALE

1 Pair of Scales (capacity 2,000 lbs.) at a bargain.

Apply Box 238.

Hardware and Metal

10 FRONT STREET E., TORONTO.



ALL Leading Dealers handle the Best and Largest Line of Refrigerators on the market. That's OURS HAM & NOTT CO., Limited, BRANTFORD, ONT. WRITE FOR CATALOGUE.

TRADE CONDITIONS IN NOVA SCOTIA.

Halifax, April 25th, 1905.

The hardware trade has somewhat improved during the last week, and business is reported generally satisfactory, both in the wholesale, jobbing and retail. Collections, however, still continue unsatisfactory, but hopes are entertained that this condition will improve from month to month, as there is some improvement already over the last three months. Prices in all lines remain remarkably firm, and there is no expectation of any immediate decline, especially in goods manufactured from steel and iron.

* * *

The jobbing and retail trade in fishermen's supplies and supplies for the canning factories continues particularly good. The bankers have mostly come in from their first trip of the season, and, as usual, they have to renew part of their outfit. Every day there are numbers of these in this harbor, and the home ports at Lunenburg, Shelburne, Liverpool, and Yarmouth. The wholesale trade is taking considerable orders in this line for early Summer delivery.

* * *

The trade in wire fencing has been good this season, and still continues so. The increased demand is accounted for by the fact that the Winter was such that the farmers were unable to get out the usual quantity of material for rail fences. Many of them have also got over their antipathy to barbed wire, and also find that the cost in the long run is much less than for rail fences. Price remains at $2.55, with staples quoted at 3¼ to 4½c., according to grade. Jobbers complain that they have difficulty in having orders filled promptly by the manufacturers.

* * *

The price of turpentine is unchanged here at 89c. for barrels and 94c. for smaller quantities. The market is, work for the road would be done. Consequently the announcement that the

foundry at Gibson will not reopen occasions little surprise. Quite a number however, considered an open one, as it is claimed in some quarters that these prices can be bettered. There is not so much sign as there was a short time ago that dollar turpentine would be the rule. Though linseed oil has gone up some twenty per cent. from the low price of two months ago, the price has only slightly varied here, being quoted at 47c. in barrels to 52c.; for boiled, 50c. to 55c. These prices may change at any time.

* * *

The following have been in good demand: Paints and oils, both plain and ready mixed. Tin plates for lobster cans, the price being as formerly quoted. Twines, lines, canvas and cordage. A fair demand for bar iron, which is firm, the price being $2 base. Steel is also in good demand at: tire, $2.40; spring, $2.75; machine, $3. Wire nails are going out in good quantities, and there is some demand for cut nails, which are quoted at $2.40, being 10 cents higher than wire. This is the first time cut nails have been quoted higher than wire.

* * *

Cement is an article for which there seems to be a large increase in demand every year. Stone, which was formerly used in building bridge piers and abutments, has now almost gone out of use, and cement and rough stone is used instead. The same has taken place in the matter of underpinning or foundations for wooden buildings. Cement stocks are low here at present, but a large quantity of Belgian is on the way. English is quoted at $2.25.

* * *

The firm of Cragg Bros, hardware, kitchen furnishings and sporting goods, with reference to which notice of dissolution was given some time ago, is to be continued under the same name, Frank J. Cragg, the surviving partner having bought out the rights of his deceased brother, James R. Cragg.

TRADE CONDITIONS IN NEW BRUNSWICK.

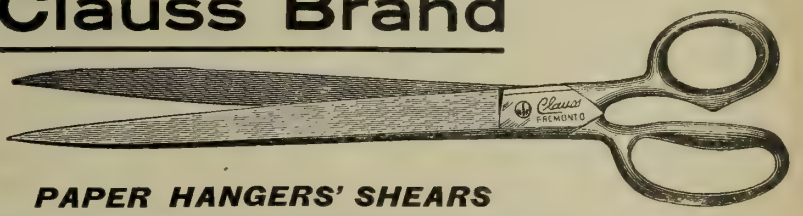
St. John, N.B., April 25, 1905.

BUSINESS here, as elsewhere, is picking up. During the Winter business was, as noted, far from the best, but now the outlook for a good season is bright. This applies to the hardware trade as well as to other branches of the business world. Jobbers are now handling a goodly number of orders, and the prospects are that they will be considerably busier before long. Retailers are becoming steadily busier, and will doubtless succeed in making up for the quiet spell of a few months ago.

* * *

It was reported some time ago that the Gibson Foundry Co. will not reopen again. This report has not been denied, so it may be assumed to have been correct. The Gibson Foundry is situated at Gibson, near Fredericton. During the year that it was in operation the greater part of the work done by its workmen was for the Canada Eastern Railway. When that railway was taken over by the Intercolonial, however, the machine shops at Moncton were naturally looked to as those in which the most

OUR AGENTS
MESSRS. WAYLAND, WILLIAMS & DADSON
28 BOARD OF TRADE BUILDINGS, MONTREAL
are carrying a stock of our goods and will be pleased to have your inquiries for **Hex. and Square Cap Screws, Square Head Set Screws, Bright Washers,** and **Bright and finished Hex. Nuts.** The quality is right, and we can give you good deliveries
ACME LATHE & PRODUCTS CO., LTD.
MANCHESTER.

Clauss Brand
FULLY WARRANTED


PAPER HANGERS' SHEARS
Hand forged from finest steel and welded on our composition metal, hardened in water and tempered by natural ga This shear is made purposely for paper hangers' use, and is more durable than other of its kind on the market. We call pecial attention to this shear. Japan handles and finely finished blades. Ask for discounts.
CLAUSS SHEAR CO., 169 Spadina Ave., Toronto, Ont.

H. & R. SINGLE GUN AUTOMATIC AND NON-EJECTING
12, 16 and 20 Gauge
Steel and Twist Barrels
Superior in Design, Workmanship and Finish, and the most popular Gun on the Market.
Simplest "Take Down" Gun Made

HARRINGTON & RICHARDSON ARMS CO.
Also makers of H. & R. Revolvers.
Catalog on request. Worcester, Mass., U.S.A.

New Metals Only
New and old Brass, Copper, Lead, Zinc, etc., best prices.
If you have any advise me.
W. G. HARRIS
31 William St., TORONTO
Phone M. 1729 and 1730 - - - - - - - - - Established 20 Years


A Good Line
Beaver Post-Hole Digger
Will please your customer. A pleased customer is an asset to any business.
No wood to rot, check or break. Special discounts to the trade.
Canada Foundry Company, Limited
HEAD OFFICE AND WORKS: TORONTO, ONT.
District Offices: Montreal, Halifax, Ottawa, Winnipeg, Calgary, Vancouver, Rossland.

work for the road would be done. Consequently the announcement that the foundry at Gibson will not reopen occasions little surprise. Quite a number of hands are affected by the closing of the foundry.

* * *

The demand for wire fencing this year is, as was already intimated by Hardware and Metal, becoming somewhat larger in this part of Canada every year. This season it looks as if the supply would hardly be equal to the demand, that is for some time at least. The jobbers have not been able to fill all the orders that have come in, due, so it is said, to the inability of the manufacturers to keep up with the demand. Of course this year the sale for wire fencing will probably be larger than it would otherwise have been had the Winter been less severe. In the country districts during the Winter the farmers were unable to get fence rails from the woods, hence the heavier demand for wire fencing. There is nothing new to report concerning prices of this article.

* * *

Dealers who handle fishermen's supplies report that the conditions in this branch of trade are improving somewhat. The demand for the supplies for lobster canneries is very good, and gives promise of being better still as the Summer advances.

* * *

The subject of lubricating oils was recently touched on in this column, but it may not be amiss to point out that the demand for these oils is opening up in good style. The prices asked, however, remain practically unchanged. Turpentine, also, is bringing about the same price as when previously commented upon. The market is fairly firm.

* * *

Bar iron is now bringing about $2 base. Manufacturers are advancing their prices for this commodity, and it is, of course, to be expected that wholesalers and retailers will follow in their wake. The market is firm.

* * *

Messrs. Emerson & Fisher have moved into their new building on Germain street. They now have what is probably the largest and most up-to-date hardware building east of Montreal. A large addition to their stock is also noticeable at this time.

* * *

Mr. C. M. Freeze, of Messrs. Freeze Bros., was an unsuccessful candidate for alderman at the recent civic elections

TRADE CONDITIONS IN BRITISH COLUMBIA.

Special Correspondence of HARDWARE AND METAL.

Vancouver, B.C., April 20, 1905.

THERE are so many steamers in Northern British Columbia coast trade that a rate war is predicted before the end of the season. The attention being paid to Northern British Columbia, to which there is practically no access except from coast points, has greatly increased passenger traffic, and the expansion of cannery and other business, especially logging at points far up the coast, has given heavy cargo business to steamers hitherto engaged. This season, with the expectation of good salmon runs, the preparations are heavier than usual.

The C.P.R. coasting service has had the Princess Beatrice and the Tees on the run to all up-coast points for some time, with the Princess May, the clipper ship of the northern fleet, making calls at Port Simpson while en route to Skagway. The Union S.S. Co. have two vessels, the Capilano and the Coquitlam regularly in the northern service, and each of them carries heavy cargoes. Just now this company is daily expecting the arrival of a fine new steamer, the Camosun, built in the Old Country. She will be placed on the northern run also.

The owners of the wrecked Boscowitz, a steamer formerly trading north, have refitted the steamer Venture, formerly a freight boat running to Skagway, and the Mackenzie Bros., Limited, have put steam in the old bark Henrietta which has been used as a hulk for years, since being taken off the high seas as a sailing vessel. She is a well-built vessel and now has passenger accommodation. Capt. Otto Buckholtz and associates are now engaged in having a fine new steamer for passenger and freight built at North Vancouver, and she will also be placed on the up-coast run. With all this tonnage there will be no trouble in getting service for any of the many points up the coast where commercial development has begun. Indeed the prediction is made by transportation men that there will not be business enough to go round. These, of course, take no stock in any contingency such as commencement of construction on the coast by the Grand Trunk Pacific Railway.

* * *

The way tinplate moves when there is prospect of anything doing at the B. C. canneries can be illustrated by recent arrivals. The steamer Ping Suey of the China Mutual line brought 10,000 cases from Liverpool, which was unloaded at Vancouver for the various big packing concerns. At almost the same time 19 cars of American tin arrived overland for Fraser River canneries. These are but two consignments. There are still 20 cars of American tinplate to arrive, and the cargo of tin brought by the Ping Suey is but one of several big shipments received here in the past few months.

* * *

Railway building is still a topic of live interest in this province. Once in a while the G.T.P. is resuscitated, as when the announcement was made the other day that the road had bought for a terminus the much-disputed Kaien Island, which has been considered a reserve, but on which parties had filed for preemption claims, on the ground that it was an island, the reserve having been placed only on the mainland by the original order-in-council.

The Hill interests are active in the interior and the positive statement is made that the section of their Coast-Kootenay line will be completed from Midway where the present terminus is, to Princeton, in the Similkameen country, this year. It is in connection with this Similkameen section that application has been made to the Dominion Parliament for permission to run south to connect with the Great Northern main line in the States, as the desire is to avoid for the present the heavy grades crossing the Hope Mountains. This is the stumbling-block which has for years hindered construction of direct rail connection between the coast and Kootenay districts.

* * *

An interesting sale of junk has been going on at Esquimalt for some days, through the dispersion of the plant and appurtenances of the navy yard there, now abandoned and largely dismantled by the Imperial authorities. Junk dealers and other bargain-hunters from all over the coast were there, some of the former coming even from San Francisco. A list of the "bargains" being knocked down by the Admiralty's auctioneer, would make interesting reading. A lighter, which was formerly a sealing schooner, and seized by a British cruiser for going inside the 60 mile limit at the Pribyloff Islands, was sold for less than the value of the copper sheathing on her hull. The purchaser was Mr. R. P. Butchart, of the Vancouver Portland Cement Co., of Victoria. He will use her for a cement barge. One hundred and two torpedo nets, which cost the Admiralty $200 each went to two dealers for $10 for the lot. Sixteen hundred coaling baskets in good condition went for $6. One large lot of rope and cordage went at such a trifling figure, it was strange even the junk dealers did not bid up on it.

* * *

The Provincial Government intends enforcing the lumber export tax strictly. Timber Inspector Murray seized a big boom of logs at Comox yesterday, which was cut on land not exempt from the operation of the tax, and which was about to be towed down to Puget Sound. It was the first seizure, and the owners evidently intended testing the law. On a number of previous shipments they have paid the tax under protest.

* * *

Anticipating the demand for lumber on the northern coast of the province, a company has been formed by Angus Fraser, a well-known logger, to establish a mill at Kawatsie Bay, some 200 miles north of Vancouver. The machinery is to be sent north shortly and the mill will be running early in the Summer. It is possible that water-power will be used to run the mill.

* * *

The shingle and lumber manufacturers have established selling pools, two concerns having been formed for the purpose of acting as timber brokers in placing the lumber on outside markets. These concerns are the Export Lumber & Shingle Co., and the Union Lumber Co. All mill operators in the arrangement have agreed to sell through the brokers, and the trade is apportioned to the mills on basis of capacity.

* * *

Last Thursday the first prosecution took place under the new Act licensing commercial travelers. Mr. John Hughes, representing J. L. Nichols Co., of Toronto, was the defendant. Mr. Hughes now carries a blue paper as a souvenir of his visit to this province. He stated to the magistrate when his case was called, that he had been in the Maritime Province recently and had not heard of the new law. As it was the first case, the magistrate ordered a withdrawal of the charge on condition that Mr. Hughes would suspend operations for the present. This he did, appointing a local representative and leaving for the east, where licenses are not required from the unfortunate traveling man.

RETURNED
JUN 15 1905



The New Skates

WE ARE in the field as skate manufacturers, and we have something in this line that is exclusive and will appeal to the Trade and Skater above everything on the market.

"Automobile" Skates

—AND—

"Cycle" Skates

They are the "perfected" article, and are so far in advance of anything in the skate line that they absolutely lead.

The trade that overlooks these will "cut no ice" next season.

WRITE FOR PARTICULARS. PRICES RIGHT.

CANADA CYCLE & MOTOR CO.

TORONTO. LIMITED

WINNIPEG VANCOUVER

PAINT, OIL AND BRUSH TRADES

The Alberta Oil Fields.

AN oil expert from Pennsylvania, who was sent to make a report on the oil wells near Egg Lake and Oil City, Alberta, was interviewed in St. Paul, and is reported to have said: "This is the greatest oil find the world has ever known. Not half the country has been prospected, but we know it covers a territory over 100 miles square. It may be three times this area. Oil of the highest quality ever discovered is now gushing from the earth in the Canadian Northwest. Practically all of the country to the north of Montana is one vast oil well. In the extreme southwestern section of Alberta, 5 miles from the American boundary line, a thriving town has sprung up within the past few weeks, populated almost entirely by oil prospectors and those interested in the development of recent discoveries. The valley in which these wells lie is described by geologists as an enormous crevice, caused by a volcanic eruption cross cutting the formation of the Rocky mountains and forming a basin into which the oil has seeped until it has formed enormous lakes underlying the rock formation at a depth of 1,000 feet. The oil is said to have been made by the distillation of large coal bodies lying to the north. The discovery was made by a farmer, who gathered oil on the surface and sold it to his Mormon neighbors. Both the Canadian Pacific and the Great Northern railway systems are building branches to Oil City. Further north it is the same story. Oil and gas are gushing from the ground. Town after town reports the discovery of oil or gas, and it is expected that within a few months Egg City will be the centre of the largest oil fields the world has ever known. To the north of Oil City for a distance of a thousand miles oil exists in vast quantities, and for the past year or so prospectors have covered the country, boring and striking oil and then plugging the 'bore holes' to keep the matter as quiet as possible."

RETURNED
OCT 17 1905
AUG 1 1910

Paper Window in Japan.

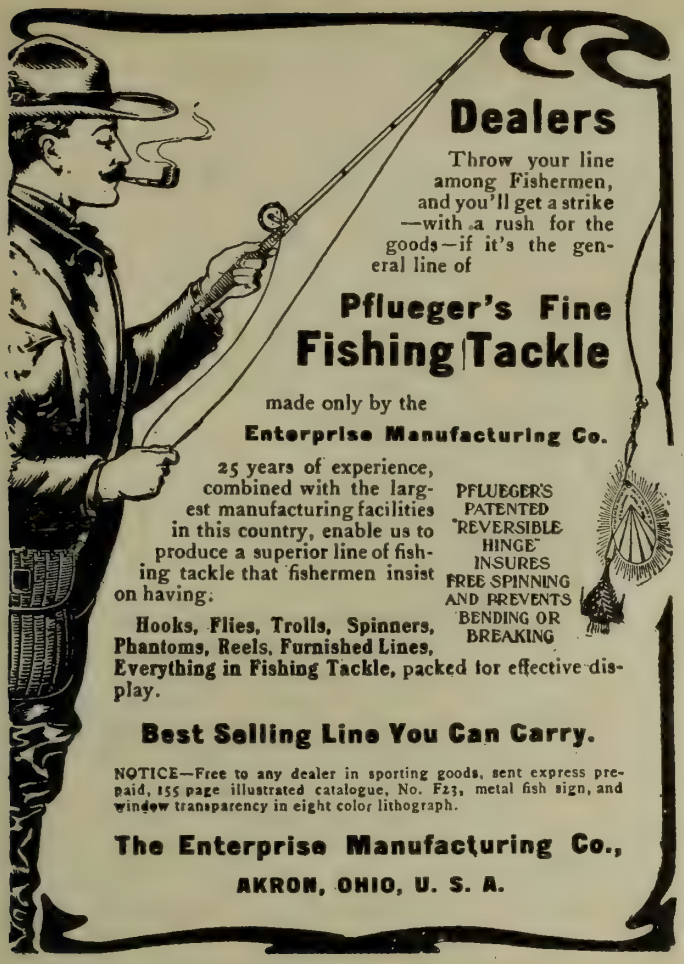
FROM the bark of trees and shrubs the Japanese make scores of papers which are far ahead of all others. The walls of Japanese houses are wooden frames covered with thin paper, which keeps out the wind but lets in the light, and when one compares these paper-walled "doll houses" with the gloomy bamboo cabins of the inhabitants of the Island of Java or the small-windowed huts of early days, one realizes that without glass and in a rainy climate this ingenious people has solved in a remarkable way the problem of lighting dwellings and, at least in a measure, of keeping out the cold. Their oiled papers are astonishingly cheap and durable. As a cover for his load of tea when a rainstorm overtakes him, the Japanese farmer spreads over it a tough, pliable cover of oiled paper, which is almost as impervious as tarpaulin and as light as gossamer. He has doubtless carried this cover for years, neatly packed away somewhere about his cart. The "rikisha" coolies in the large cities wear rain mantles of this oiled paper, which costs less than 18 cents and last for a year or more with constant use. An oiled tissue paper, which is as tough as writing paper, can he had at the stationer's for wrapping up delicate articles. Grain and meal sacks are almost always made of bark paper in Japan, for it is not easily penetrated by weevils and other insects. But perhaps the most remarkable of all the papers which find a common use in the Japanese household are the leather papers of which the tobacco pouches and pipe cases are made. They are almost as tough as French kid, so transparent that one can nearly see through them and as pliable and soft as calfskin. The material of which they are made is as thick as cardboard, but as flexible as kid.

Now is the time to boom the paint department. Put some of those nice color boards in the window or make a neat stack of the cans of paint where the public will see it. Use some of the paint on your own store just to show your belief in it.



Can be sold with the utmost confidence for floor finishing or any kind of decorating where a varnish stain can be used.

In 6 transparent nonsettling and nonfading shades Also for Solid colors.



Dealers

Throw your line among Fishermen, and you'll get a strike —with a rush for the goods—if it's the general line of

Pflueger's Fine Fishing Tackle

made only by the

Enterprise Manufacturing Co.

25 years of experience, combined with the largest manufacturing facilities in this country, enable us to produce a superior line of fishing tackle that fishermen insist on having.

PFLUEGER'S PATENTED REVERSIBLE HINGE INSURES FREE SPINNING AND PREVENTS BENDING OR BREAKING

Hooks, Flies, Trolls, Spinners, Phantoms, Reels, Furnished Lines, Everything in Fishing Tackle, packed for effective display.

Best Selling Line You Can Carry.

NOTICE—Free to any dealer in sporting goods, sent express prepaid, 155 page illustrated catalogue, No. F23, metal fish sign, and window transparency in eight color lithograph.

The Enterprise Manufacturing Co.,

AKRON, OHIO, U. S. A.

A Chain

Is no Stronger than Its Weakest Link and

Kinked Fence

is no Stronger than its WEAKEST KINK

In most factory-made fences there are over 1,000 of these kinks, or weak spots, in each 100 rods.

Would You Buy It?

Of course not if you knew all about it.

London Fences are coiled—not kinked. The strands retain their original strength.

The reduced price on ***London Fence Machine*** outfits is making big sales. Hurry in your orders before the rush.

LONDON FENCE MACHINE CO., Ltd.

LONDON - - ONTARIO

If You Buy

Varnishes **Paints**
Japans **Colors**
Lacquers **Glues**
Stains **Bronzes**
Fillers **Chamois**
Sponges

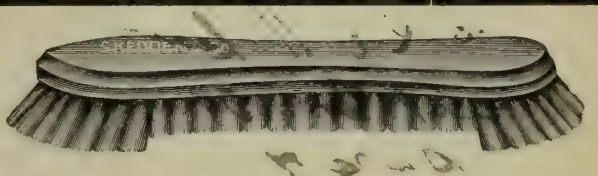
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R. C. JAMIESON & CO.

LIMITED

MONTREAL

AGENTS FOR ASPINALL'S ENAMEL



Is it all Right?

Have you any grievance over your brush business? If so, whose fault is it?

Skedden

makes brushes of every description, and every brush he makes is one that he is not ashamed to acknowledge. Such brushes make him good customers—customers who stick. Are you one?

Have You our Catalogue?

The Skedden Brush Co., Limited, Hamilton

Toronto Office—176 Victoria St. 'Phone Main 3358. O. VICKERY, Agent.

It Stands to Reason

that a ***Liquid Paint,*** the only White Lead in which has been the ***World's Standard*** for the last ***186 years,*** must naturally be a very ***superior article.*** This is our claim, which is vindicated by people who have used

"ANCHOR LIQUID HOUSE PAINTS"

Made in Canada with

BRANDRAM'S B.B. GENUINE WHITE LEAD

BRANDRAM BROS & CO BRANDRAM'S B.B. WHITE LEAD REGISTERED TRADE MARK MANUFACTURERS LONDON ENGLAND

Manufactured by

HENDERSON & POTTS, Limited

HALIFAX and ST. JOHN

HENDERSON & POTTS CO., LIMITED

MONTREAL and WINNIPEG

Paint and Oil Markets

Quebec.

Office of HARDWARE AND METAL,
232 McGill Street,
Montreal, April 28, 1905.

GREAT irregularity is being shown with turpentine. Although the on the market in connection conditions of the market at the manufacturing point have an upward tendency, the decline of two cents per gallon as is noted below is probably due to local competition. The present conditions warrant a slight advance at any time. An advance of four cents per gallon is noted in linseed oil. This change has occurred in sympathy with the English market, and as local crushers have nothing to offer the price is expected to remain firm for some time. Trade in white lead has a tendency to be backwards and unsteady on account of the inability, as it were, or the undesirability expressed on the part of the local wholesale jobbers in booking orders for future shipments. Wholesale jobbers are well stocked with Paris green in anticipation of a good trade during the approaching Summer, but as it is yet early for the retail merchant to purchase, trade is still quiet. The market in general has a good appearance. Orders of a well-assorted character continue to arrive for ready-mixed paints.

Canadian Paris Green—No change is noted in the price list. We quote as follows: Barrels, 15 1-4c.; arsenic kegs, 15c.; 50 and 100 lb. drums, 16c.; 25 lb. drums, 16 1-2c.; one pound packages, 17c.; half-pound packages, 19c.; one pound tins, 18c. Terms 2 per cent. discount for cash in 30 days or 90 days net.

English Paris Green—Pure English Paris green, petroleum barrels, 15 1-4c.; arsenic kegs, 15 1-2c.; 50 and 100 lb. drums, 16c.; 25 lb. drums, 16 1-2c.; one pound paper boxes, 17c.; one pound tins, 18c.; one-half pound paper boxes, 19c.; one-half pound tins, 20c. Terms, 2 per cent. off thirty days, or ninety days net from date of shipment.

Turpentine—Single barrels, 87c. per gallon; two to four barrels, 86c. per gallon; for smaller quantities than barrels, 5c. extra per barrel is charged. Standard gallon is 8.40 lbs. fo.b. point of shipment, net 30 days.

Linseed Oil—Raw, one to four barrels, 50c.; five to nine barrels, 49c.; boiled, one to four barrels, 53c.; five to nine barrels, 52c. f.o.b. Montreal. Net 30 days.

Ground White Lead — Best brands Government standards, $4.70 to $4.85; No. 1, $4.45 to $4.60; No. 2, $4.20 to $4.35; No. 3, $3.87 1-2 to $3.97 1-2; No. 4, $3.50 to $3.60, all f.o.b. Montreal.

Dry White Zinc—Pure dry in casks, 7c.; in 100 lb. kegs, 7 1-2c.; No. 1 zinc, in casks, 6c.; in 100 lb kegs, 6 1-2c.

White Zinc (ground in oil)—Pure, 25 lb. iron, 7 1-2 to 10c.; No. 1, 6 1-4c.; No. 2, 5 1-4c.

Putty—Pure linseed oil 175 to 185. Bulk in barrels, $1.50; in 25 lb. irons, $1.80; in tins, $1.90; bladdered putty in barrels, $1.75.

Orange Mineral—Casks, 7 1-4c.; 100 lb. kegs, 7 1-2c.; smaller quantities, 8 1-2c.

Red Lead—Genuine red lead in casks, $4.50 in 100 lb. kegs, $4.75; in less quantities at the rate of $5.75 per 100 lbs.; No. 1 red lead, casks, $4.25; kegs, $4.75, and smaller quantities, $5.50.

Shellac Varnish—Pure white, $2.60 to $2.80; pure orange, $2.55 to $2.65; No. 1 orange, $2.30 to $2.45.

Mixed Paints—$1.20 to $1.40 per gallon.

Castor Oil—8 3-4c. to 9 1-4c. in wholesale lots, and 1-2c. additional for small lots.

Litharge—Ground, in casks, 5c.; in less quantities, 5 3-4c.; flake litharge, casks, $5.50; smaller quantities, $6 per 100 lbs.

Refined Petroleum—The opening of navigation has resulted in many orders being booked. No advance in price is expected to take place, however, as the oil which is now being booked does not necessarily need to be used until later on in the year, when the nights become longer. We quote as follows: American prime white 14 1-2c., American water white 16c.

Ontario.

Office of HARDWARE AND METAL.
10 Front street east,
Toronto, April 28, 1905.

LINSEED oil continues to advance in England, and last week's rise on the local market holds very firm, with every indication of a still further jump upward. Turpentine still holds high, with no change from last week.

White lead is stiffening considerably, and fair sales are reported. There has been a revival in business since the holiday, many dealers finding it necessary to restock. The opening of navigation has not made much difference to the trade as yet.

White Lead—Ex-Toronto, pure white lead, $4.75; No. 1, $4.37 1-2; No. 2 $4; No. 3, $3.62 1-2; No. 4, $3.35 in packages of 25 lbs and upwards; 1-2c. per lb. extra will be charged for 12 1-2 lb packages; genuine dry white lead, in casks, $4.25.

Red Lead—Genuine in casks of 560 lbs., $4.50; ditto, in kegs of 100 lbs., $4.75; No. 1, in casks of 500 lbs., $4 to $4.25; ditto in kegs of 100 lbs., $4.50.

White Zinc—Genuine French V. M., in casks, $6.50 to $7; Lehigh, in casks, $6 to $6.50.

Shingle Stain—In 5 gallon lots 75 to 90c. per gallon.

--FLINTCOAT STAIN--

(FLOOR FINISH)

An entirely new preparation for staining and finishing floors of every description. Stains and finishes at the same time. Dries hard over night. Makes a tough, durable, elastic surface; is not affected by hot or cold water; will not crack, mar or chip off. Can be used with impunity on Wainscotting, Woodwork, Furniture, Doors, Screens, Oilcloth, Linoleum, etc.

6 Finishes. Cans. Prices on Application.

THE STANDARD PAINT & VARNISH CO, LIMITED, - WINDSOR, ONT.

"The Tool Holder People"

Armstrong Bros. Tool Company

Manufacturers of Armstrong Patent Lathe and Plane Tools and other machine shop specialties.

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McCaskill, Dougall & Co.

Manufacturers

RAILWAY, CARRIAGE AND BOAT **VARNISHES.**
HIGH-GRADE FURNITURE and HOUSE VARNISHES

MONTREAL.

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for news of the **Oil, Paint, Soap, Varnish Chemical and Drysaltery Trades.**

Subscription, $2.00 per year from date.
Sample for 10 cents.

SCOTT, GREENWOOD & CO.
10 LUDGATE HILL - LONDON, ENG.

Get your GLUES from

The GROVE CHEMICAL CO., Limited

Appley Bridge, Lanc, England.

Our ordinary grades are better than ordinary, and we can supply special makes for special purposes. SCOTCH GLUES, BOX GLUES, COLOGNE GLUES for Paper Makers. Size of all kinds. Send your name for our printed matter.



A Popular, Profitable and Seasonable Line to Handle.

Dennis' Flexible Steel Wire Door Mats

DENNIS WIRE AND IRON CO.

Send for Catalogue. LONDON, ONT.

ASK YOUR JOBBER FOR

GILBERTSON'S COMET

Brand Galvanized Sheets

They are carefully selected. They are soft, smooth and well galvanized. Price lower than for other high-grade brands.

Makers: W. GILBERTSON & CO., Limited
Pontardawe, South Wales.

ONE CENT ***Is it worth one cent to know well not only the paints and brushes you are selling but also those your competitor is selling? A Post Card sent to our advertisers will bring you full information about their goods.***



"Island City"

is the name of the brand of **Paints** for use on **Floors** and **Houses**, which give satisfaction wherever used. Guaranteed to dry

IN

Eight Hours

P. D. DODS & Co., Montreal Toronto Vancouver



A

High-Pitched Soprano

or a

Loud Voice

is not necessary in telephoning orders to **THE CANADA PAINT COMPANY,** in Toronto or Montreal.

No matter whether you are on the Long Distance or Short Distance, a good healthy whisper will put you in telephonic connection with the trained salesmen of **THE CANADA PAINT COMPANY,** in Montreal or Toronto.

Telephone orders are appreciated—

Telegrams receive particular care—

Travellers' orders are a delight—

Letter orders are welcome, always—

THE CANADA PAINT COMPANY LIMITED

MANUFACTURERS

MONTREAL TORONTO

Paris White—90c. to $1 per 100 lbs.

Whiting—60 to 65c. per 100 lbs; Gilders' whiting, 75c.

Shellac—Pure orange in barrels, $2.75 to $3; white, $2.85 to $3.10 per barrel; No. 1 (orange), $2.25.

Linseed Oil—Our quotations are: Raw, 1 to 4 barrels, 52c.; boiled, 55c.; no concessions for larger quantities, Toronto, Hamilton, London, and Guelph, net 30 days. Advance of 2c. for delivery to outside points.

Turpentine—Single barrels, 88 to 90c.; 2 to 4 barrels, open; 5 barrels and over, open, f.o.b. point of shipment, net 30 days. For less quantities than barrels, 5c. per gallon extra will be added, and for 5 gallon packages, 50c., and 10 gallon packages 80c. will be charged.

Paris Green—600 lb. barrels, 13 1-4c.; 250 lb kegs 13 1-2c.; 50 lb drums, 14 1-2c.; 1 lb. packets, 15c.

Glues—Broken sheet, in 200 lb. barrels, 5 to 25c. per lb.; cabinet glue, in barrels, 11 1-2 to 12c.; emery glue, in barrels, 15c.; bookbinders' ground, 11 1-2c.; finest American white, 19c.; No. 1 American white, 15c. per lb.

Putty—Ordinary, bladders in barrels, $1.65 to $1.75; pure linseed oil, $2 to $2.10; bulk in barrels, $1.50; pure, $1.95 to $2; 100 lb. kegs 25c. extra.

Plaster Paris—New Brunswick, $2 per barrel.

Liquid Paints—Pure, $1.20 to $1.35 per gallon; No. 1, $1.10 per gallon.

Barn Paints—60 to 70c. per gallon.

Bridge Paints—75c. to $1.

Castor Oil—English, in cases, 8 1-2 to 9c. per lb., and 10c. for single tins.

Refined Petroleum—Business continues active with no change in prices. We quote: Water white, 16c.; Canadian prime white, 14 1-2c.; American water white, 16 1-2c. to 18 1-2c. ex warehouse.

Crude Petroleum—Trade is reported good. We quote: Pennsylvania, $1.31; Corning, $1.06; Newcastle, $1.31; North Lima, 92c.; Tiona, $1.54; South Lima, 88c.; Somerset, 81c.; Indiana, 88c.; Canadian, $1.28.

Glass—See current quotations at the end of this issue.

Window Glass.

MONTREAL.

No distinct change worthy of mention has occurred on the market during the past week. Now that the trouble in Belgium has been practically settled, and the fears entertained until quite recently by members of the local wholesale trade over the arrival of glass have been dispelled, trade has assumed a brighter aspect. No change has occurred in the price list, and one is not likely to occur until after the arrival of new glass. New shipments are expected in three weeks. Trade in the province of Prince Edward Island is better, and some large orders have been booked recently. Our quotations are as follows: First break, 50 feet, $2.00; second break, $2.10; first break, 100 feet, $3.75; second break, 100 feet, $3.95; third break, 100 feet, $4.50; fourth break, 100 feet, $4.75; fifth break, 100 feet, $5; sixth break, 100 feet, $5.50; seventh break, 100 feet, $6.00; and eighth break, 100 feet, $6.50. Diamond star, first break, 50 feet, $2.30; second break, 50 feet, $2.50; first break, 100 feet, $4.40; second do., $4.80; third do., $5.75; fourth do., $6.50; fifth do., $7.50; sixth do., $8, and seventh do., 9. Double thick, first break, 50 feet, $3.45; second do., $3.75; first break, 100 feet, $6.75; second do., $7.25; third do., $8.75; fourth do., $10; fifth do., $11.50; sixth do., $12.50; seventh do., $14; eighth do., $16.50; ninth do., $18; tenth do., $20; eleventh do., $24, and twelfth do., $28.50.

NEW BICYCLE FACTORY AT TILSONBURG.

Mr. Burkholder, of Tilsonburg, has recently moved into his new factory, a substantial brick building centrally situated just back of the Main street. When the factory is in proper running order Mr. B. will turn his attention to the manufacture of automobiles, for which he believes there is a splendid opening.

CONDITIONS OF TRADE IN BIRMINGHAM.

Birmingham, April 6, 1905.

WHILE on many sides one hears grumbling that the preferential tariff conceded by the Dominion to the Mother Country is insufficient to counterbalance the advantages enjoyed by the Americans by way of freightage, etc., instances come to hand of firms whose enterprise has enabled them to secure large Canadian orders solely on account of the difference between the tariffs levied by Canada upon British and upon American manufactures.

Messrs. C. & W. Walker, Limited, are large ironmasters and makers of constructive ironwork at Newport, Shropshire. At a meeting of the company's shareholders held within the past few days at the Grand Hotel, Birmingham, Mr. C. H. Wright, the managing director, said that although trade had, generally speaking, been very bad, the firm had done very well with the colonies. Last year a very substantial order had been received from Toronto. This was entirely due to the preferential tariff between the colonies and England. The preference in this particular case amounted to £3,000, and but for that, the Americans would have obtained the order. He mentioned the matter for what it was worth, but the fact remained that the firm had from £20,000 to £30,000

worth of work that, but for preferential tariffs between Canada and England, it would not have had.

The members of the Canadian Manufacturers' Association, to the number of about two hundred, are expected to visit Birmingham on June 27. The Birmingham Chamber of Commerce has appointed a committee to make arrangements for giving the Canadians a hearty welcome and suitable entertainment. The Canadians come to Birmingham from Walsall, and will leave on the Tuesday evening for Sheffield. Passing through this city in one day they will, of course, but obtain a glimpse of our manufactories; but, no doubt, members of the association interested in particular branches of Birmingham manufactures will take other occasions to visit the city, in which case any information that can be supplied by the local representative of Hardware and Metal will be gladly placed at the disposal of any members who will communicate their desires through the Canadian offices of the paper.

The cycling season is upon us, and midland firms engaged in the trade are, generally speaking, very busy indeed. The question of a cheaper machine has been discussed in Coventry, but leading firms express themselves as being dead against a lower-priced machine than one at eight guineas. The question is one of reliable versus shoddy fittings; the leaders of the trade have set their faces against shoddy. Chief amongst makers of high-grade fittings is the Birmingham Small Arms Co., Limited. And while the one side of their enormous factories are suffering from the indecision of the Government in regard to the new rifle, the cycle-fitting departments are working day and night with double gangs.

The motor car industry is developing apace. Foremost amongst Birmingham manufacturers is the Wolsley Co. This firm is working all days and all hours. Amongst other of their motors is a huge racing car designed for Lord Rothschild. This terrible machine is incapable of running at a less rate than 15 miles an hour, and one of the sights on the Saltley side of the city is the preparations made beforehand, and the subsequent sweeping out of its yard into the public roadway of this great car on its way to the daily run on the racing track some short distance away.

There is a far better tone about the iron market. Inquiries are numerous for the ensuing quarter, but contracts are left open pending next week's "quarterly" meeting, when hopes are entertained of a buoyant market. It is earnestly to be hoped a general improvement in the many local industries which are under a cloud will follow hard upon the evident stiffening of the market in raw material.



SHOW CABINET

Given away free with an order for

Three Half-Dozens Razors as Illustrated Above

May be procured through

All Leading Wholesale Hardware Firms

THE LEADERS



STYLE "A" STYLE "E"

Style "A" with Double Reversible Steel Bow Lever, Patented Cream Breakers.

Style "E" with Hand and Foot combination drive and spring attachment, producing an easy and elastic motion.

The Pittman is quickly detachable from churn.

Both styles are fitted with our improved Steel Ball Bearings and mounted on Rigid Angle Steel Stands.

THE DOWSWELL MANUFACTURING CO., LIMITED

HAMILTON, ONT.

RETURNED MAY 6 190

STOVES AND TINWARE.

Heating Plants and Hardware Dealers.

WHEREVER you find a hardwareman interested in the subject of hot-air heating you usually find a decidedly enthusiastic one, says Hardware Trade. In all of the discussions held at the hardware conventions this Spring advocates of hot-air systems have been emphatic in their assertions that for houses of nine rooms or under the furnace is the thing. It is this emphatic opinion among hardwaremen which will give hot-air heating a big impetus in many western towns during the coming year. It seems that the first step in a heating plant education which the retail hardwareman takes is a study of the furnace and principles on which it works. After he has learned to successfully install a hot-air plant he branches into other lines of heating. Many retail hardwaremen made good profits on furnace work in 1904. While the business did not reach any very large figures with any of them, it made a very satisfactory department and contributed its full share to the total volume of profit. In all of these stores the campaign for heating business will go forward with increased energy in 1905, and to this list will be added many additional hardware dealers who are seeing the light and realizing that the heating plant business is sure to be annexed to the hardware store wherever there is a hardwareman with sufficient energy and ambition to go at it. The time is not far away when the great volume of heating-plant sales will be made through the hardware dealer. This is becoming more and more true in the northwest, because education along this line is being carried forward very effectively and rapidly among dealers. It is true that there are many slow movers among the retail hardwaremen, but each year sees an improvement in this respect.

Tin Production of the World.

ACCORDING to recent German returns, the tin production of the world amounted to 93,093 tons in 1903, an increase over the preceding year of 2,916 tons. According to these returns, 75 per cent. of all tin comes from southeastern Asia, the following being the estimated output of the several colonies and countries: Malacca, 54,797 tons; Banca and Billiton, 20,060 tons; Bolivia, 9,500 tons; Australia, 4,191 tons; Cornwall, 4,150 tons; all other places, 395 tons.

Although the production of tin has increased regularly from year to year, the output is not sufficient to supply the demand, as the stock on hand in the most important tin markets has constantly decreased. The United States consumes 43 per cent. of the total tin production; Great Britain, 28 per cent; the other European countries, 22 per cent., and India and China together, 7 per cent. It is surprising that the United States, which during recent decades has made such enormous progress in exploiting its mineral resources, is not yet a factor in the production of tin, although considerable deposits are said to exist in South Dakota, Wyoming, and in North and South Carolina.

Bargain Sale in Tinware.

Head off the tinware peddler by having a sale of tin and enameled ware that will load up the entire country. You can buy these lines just about as cheaply as anyone. But don't work off a lot of cheap enameled ware on your trade. It will lose you business.

Stove Suggestions.

Make the store attractive. Have a row of shining, highly-polished stoves down the middle. Have them lined up and free from a speck of dust. If this will not attract the eye of the prospective customer he must be blind.

Next time you want to fight the catalogue house stove proposition do like a man in southern Minnesota did, says the Hardware Trade. He took one of the catalogue house ads and copied it exactly, except that he changed the description where it was necessary to describe the stove that he was selling. He had the printer set it up in exact catalogue-house style and attached his name. Many chronic catalogue-house buyers read the ad., as it looked so familiar, and he made several sales that he traced direct to the advertisement. There is something attractive about the proposition made by the mail order house, and if you duplicate it in every way you can often catch the mail order trade.



You can sell
SOLARINE
Only get it started in your town.
When people know its merits they buy readily.
Quality counts — **SOLARINE**
QUALITY brings business.
H. F. FALKINER,
60 George St., TORONTO
Ontario Distributor.

OAKEY'S The original and only Genuine Preparation for Cleaning Cutlery. 6d. and 1s. Canisters
'WELLINGTON'
KNIFE POLISH
JOHN OAKEY & SONS, LIMITED
MANUFACTURERS OF
Emery, Black Lead, Emery, Glass and Flint Cloths and Papers, etc.
Wellington Mills, London, England
Agent:
JOHN FORMAN, 644 Craig Street
MONTREAL.

No Acid in
YORK
METAL POLISH
York Metal Polish is the quickest, cleanest and most durable polish made. Liquid or paste. 10c. sizes and upwards. Free samples with every order. Free sample to any dealer.
ANGLO-CANADIAN SUPPLY CO.
3 Wellington St. E., TORONTO

IDEAL
Woven Wire Fencing

MAKES MONEY FOR YOU
Your customer, the farmer, wants a fence that can be put up quickly and easily just when he wants it. Hand made fences cost too much when you figure the time it takes to build them, to say nothing of the hard work.
Why not sell "The Ideal," the best woven wire fence made? You can build up a permanent trade that will pay you as much as any line you are handling. Other hardware merchants are doing it. Why not you? The Ideal will give satisfaction to your customer and make him your friend.
Have you seen the Ideal? Let us send you a sample and catalogue showing why Ideal fence made from No. 9 hard steel wire throughout is the strongest and the best value.
Ask us about the Ideal all metal farm gate.
The McGregor-Banwell Fence Co., Limited,
WALKERVILLE, ONT.
Morrick, Anderson & Co., Winnipeg, Man.
Sole agents for Man and N.W.T.

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GALVANIZING
ONT.
WIND ENGINE & PUMP CO.
TORONTO, ONT. LIMITED

TRADE MARK
This design a guarantee of quality.

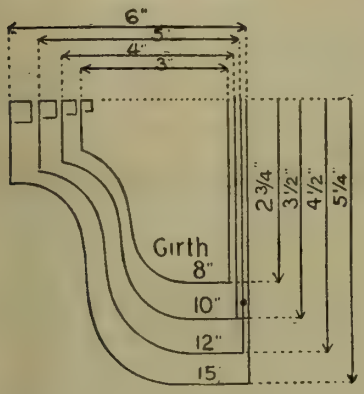
WATERPROOF WRAPPING PAPER

For Express and Long Distance Packages. Put up in rolls 36 in. wide, 250 and 300 yards in a roll. Clean paper on both sides—waterproof substance in the centre—therefore it will not soil or stain delicate goods, as ordinary waterproof paper will. Practically odorless. May be used either for case lining or wrapping packages.

SAMPLES AND PRICES WITH PLEASURE.

CANADA PAPER CO.
TORONTO LIMITED MONTREAL

O. G. Eavetrough
(Square Bead)



We supply the above in Round or Half Round, also ***Conductor Pipe,*** Plain or Corrugated. Ten foot lengths.

A full stock of Tinsmith's Tools and Supplies.

E. T. WRIGHT & CO., Hamilton, Ont.

PIG IRON

Well-known Scotch and English brands. CUT PRICES.

Planished Sheets

J. A. HENDERSON, Board of Trade, MONTREAL

Agent for T. W. & J. WALKER, Wolverhampton

A SATISFIED CUSTOMER

always calls again.
Nine-tenths of the families in your town have an ash-sifter. The majority have been accustomed to using the old fashioned wooden sifter. These were all right before our

METALLIC SIFTER

made its appearance—sells for the same price and is a great deal better.
The wire bottom may wear out but not one strand of wire can come loose. Our PATENT DOUBLE LOCK FOLD makes this impossible. Write for circular.

C. M. CUTTS & CO., Sole Makers, **Toronto Junction, Ont.**



Selling a poor stove is about the hardest work a salesman can have. It's a profitless business, too, for the profit you make is usually eaten up in trying to "make good" to your customer for the unsatisfactory service of the range.

It is easy to sell the

Imperial Oxford Range

because you can prove its points of superiority—and it has many—right on your floor.

There is not a purchaser of an ***Imperial Oxford Range*** who does not speak highly in its praise.

Write us for particulars.

The Gurney Foundry Co., Limited

TORONTO WINNIPEG VANCOUVER

The Gurney-Massey Co., Limited, Montreal, Que.;
The Gurney Standard Metal Co, Limited, Calgary, Alta.

BUILDING AND CONSTRUCTION

Building Permits.

TORONTO

Chas. Bulley, dwelling, 20 Bain avenue, $1,800.

John Kee, dwelling, 22 Birtle avenue, $2,200.

T. Baker, dwelling, 191 Perth avenue, $1,000.

John Russell, dwelling, 122 Beatrice street, $2,800.

J. N. Kilgore, dwelling, 487 West Marion street, $3,500.

Dr. Waldron, alterations to dwelling, 691 Spadina avenue, $1,000.

Jno Russell, two pair dwellings, 318 to 324 Logan avenue, $6,000.

Francis Kane, dwelling, near Gerrard street on Galt avenue, $1,000.

James Pearson, dwelling, near First avenue on West avenue, $2,500.

Mrs. Barrett, dwelling, near College street on Beatrice street, $2,500.

T. E. Price, dwelling, near Van Horne street on Dovercourt road, $1,500.

Louis Motton, store, near Brock avenue on Dundas street, $3,800.

W. H. Brown, dwelling, near Bloor street on Rusholme road, $1,800.

Board of Education, school on east side of Broadview avenue, $80,000.

Phippen Bros., dwellings, near Gerrard street on Bolton avenue, $3,000.

Victoria Lines, dwelling, near Shanley street on Westmoreland street, $1,500.

George Melhuish, store and dwelling, corner of Yonge and Dundonald streets, $7,000.

W. E. Redway, residence, corner of Smith street and Broadview avenue, $4,800.

C. M. Essery, pair of residences, near Gerrard street on Pembroke street, $9,000.

Mrs. James M. Grant, dwelling, near Wellesley street on Parkview avenue, $1,900.

Fred S. Duff, two pair brick dwellings, near College street on Beatrice street, $8,000.

Mrs. Jean Grafton, dwelling, corner of Cottingham street and Rathnally avenue, $2,800.

Dr. Thomas Butler, one pair dwellings, near College street on Grace street, $4,400.

Thomas Clayton, store and dwelling, corner of Dufferin and Millicent streets, $3,000.

White & Co., two pair dwellings, near Hepbourne street on Rusholme road, $8,000.

Mrs. S. Machell, one pair dwellings, near College street on Ossington avenue, $4,800.

J. T. V. May, one pair dwellings, near Dewson street on Concord avenue, $5,500.

J. T. V. May, one pair dwellings, near Dewson street on Concord avenue, $6,000.

J. T. V. May, one pair dwellings, near Ossington avenue on College street, $6,000.

Wickett & Craig, addition to factory, near Eastern aveune on Cypress street, $5,000.

J. H. Paterson, residence, corner of St. George street and Bernard avenue, $8,500.

R. T. Brown, three pair brick dwellings, near Bloor street on Shaw street, $12,000.

J. V. Hunter, two pair dwellings, near Hepbourne street on Havelock street, $7,000.

Dyce W. Saunders, dwelling, corner of Popular Plains road and Clarendon avenue, $8,500.

R. C. Vaughan, one pair brick dwellings, near Avenue road on McMaster avenue, $4,000.

W. E. Link & J. Ellis, one pair dwellings, near Yonge street on MacPherson avenue, $5,600.

Mrs. Jean Grafton, two pair dwellings, corner of Cottingham street on Rathnally avenue, $9,000.

Show Your Customers

our new Catalogue and it will speak for itself. The cuts of our New Gothic Ceiling Classification are a revelation to most people, as they have no idea that anything so handsome could be provided in Metal, and to see our new cuts is to want to have a Metal Ceiling. Did you receive

Our New Catalogue?

If not, ask for it, as it should now be in your hands. Why not make a canvass for Metal Ceiling trade? Suppose you adopt a system of canvass, and make it a point to see one person each day and show our catalogue. Like as not, your next door neighbor could use a Metal Ceiling to advantage if he knew their adaptability and service.

Our Prices are very low

at present, and now while the weather is warming and people have the inclination to "dress up" their premises is the time to make a canvass. Ceiling trade, like everything worth having, won't come to you; you must go after it, and there is no branch of your trade which will yield better returns.

Metal Shingle and Siding Co.
Preston, Ont. **LIMITED**

Alberta Agency, Ellis & Grogan, Calgary.
Northwest Agency, Clare & Brockest, Winnipeg.
Montreal Agency, J. B. Dagenais, 953 St. James St.

"DOMINION BRAND" TARRED FELT
(THE OLD RELIABLE QUICK SELLER)

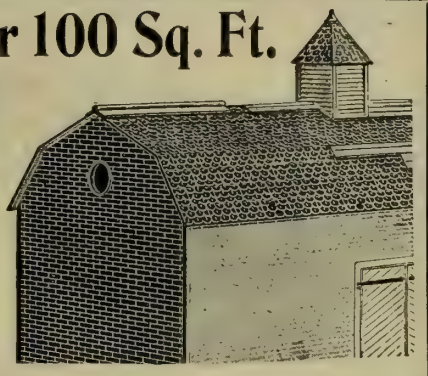
ROOFING PITCH
COAL - TAR

WHEN YOUR TRADE DEMANDS **THE BEST** ROOFING MATERIALS

CONSULT THE WELL-KNOWN MANUFACTURERS

LOCKERBY & McCOMB, 65 Shannon St., Montreal

Steel Roofing and Siding, $2.00 per 100 Sq. Ft.



Painted red on both sides. Most durable and economical covering for **Roofing or Siding, for Residences, Houses, Barns, Elevators, Stores, Churches, Poultry Houses, Cribs, etc.** Easier to lay and will last longer than any other covering. Cheaper than wood shingles or slate. No experience necessary. A hammer and snips are the only tools required. It is semi-hardened high grade steel. **Brick or Stone Siding at $2.00 per 100 Square Feet. Pedlar's Patent Steel Shingles at $2.50 per 100 Square Feet.** Also **Corrugated Iron, Painted or Galvanized,** in sheets 96 inches long. **Beaded and Embossed Ceilings. V Crimped Roofing.** 2000 designs of Roofing, Siding and Ceilings in all grades. Thousands of buildings through the Dominion covered with our Sheet Metal Goods making them

FIRE, WATER AND LIGHTNING PROOF.

Send in your order for as many squares (10 x 10 feet) as you require to cover your new or old building. The very best roofing for this climate. We can supply **Eave Trough, all sizes, Corrugated or Plain Round, Conductor Pipes, Shoes, Elbows, Spikes, Tubes.**

All goods shipped day after order is received. We are the largest concern of the kind under the British Flag. Established 1861. Capital Invested $150,000.00.

PEDLAR PEOPLE, OSHAWA, ONTARIO, CANADA.

Eastern Warehouse—767 Craig St., Montreal, Quebec.



GURNEY CYLINDER LOCKS

We shall be delighted to send a detailed statement to any hardware dealer setting forth the reasons for our belief in ***Gurney*** Cylinder ***Locks.***

These locks are quite the equal of the high-priced locks of United States manufacture. They are made in Canada, are sold at a much lower price and are ***as good as, if not better than,*** any other locks known to the trade.

You should have our catalogue.

THE GURNEY, TILDEN CO., Limited

HAMILTON

BRANCHES:
Winnipeg—Tilden, Gurney & Co., Limited
Vancouver—The Gurney, Tilden Co., Limited

AGENCIES:
Montreal—Nicoll & Barr, 35 St. Peter St.
St. John—Nicoll & Barr, 38 Dock St.

Business Changes

ONTARIO.

G. A. Ellacott, dealer in agricultural implements, Atwood, has sold to C. Vallance.

C. A. Girvin, dealer in stoves, tinware, etc., Bridgeburg, has assigned to J. T. James.

M. McConnell, hardware merchant, Cayuga, has sold to W. Murray & Co.

M. D. Peever, dealer in agricultural implements, Cobden, has retired from business and left Cobden.

H. K. Thompson, hardware merchant, Inwood, has sold to G. L. McCandless.

QUEBEC.

A meeting of the creditors of H. O'Brien & Co., painters, Montreal, was held on April 25th.

NOVA SCOTIA.

Hosterman & Graves, carriagemakers, Halifax, have dissolved partnership.

MANITOBA AND N.W.T.

C. R. Boultbee, dealer in agricultural implements, Broadview, has assigned to A. B. Colquhoun.

The stock of W. B. Shannon & Co., hardware merchants, Carberry, has been damaged by water.

A. D. Smith, blacksmith, Medicine Hat, has been succeeded by T. F. Ferry.

A meeting of the creditors of Hamilton Bros. & Co., hardware dealers, Tantallon, has been held.

J. Charters, blacksmith, Canora, has sold to A. Smith.

A. Waddell, blacksmith, Millwood, has been burned out.

A GOOD CONTRACT.

The James Smart Mfg. Co., Brockville, have secured a contract for the warming and ventilation of the new consolidated eight-room school to be erected at Riverside, N.B. Four No. 30 Kelsey generators will be used.

GOOD SALE FOR LOGOPHONES.

Mr. Harry Richards, of No. 1694 Notre Dame street, Montreal, who is agent for the English Logophone Co., reports a good sale. Mr. Richards' logophone is not expensive, and does not get out of running order under ordinary circumstances. It is durable and has given general satisfaction wherever used. A large number have been installed within a recent date in Montreal and other large Canadian cities, and the outlook for this article at present has a very bright aspect.

The Hanover Portland Cement Co., Limited
HANOVER, ONTARIO
Manufacturers of the celebrated **"Saugeen Brand"** OF PORTLAND CEMENT.
Prices on application.

"THE EMLYN" SAW BENCH
Made in 6 sizes. Best value obtainable. Specially designed for export With or without "Emlyn" Patent Guard. Sole maker—
CHARLES D. PHILLIPS,
Cables— "Machinery," Newport.
Emlyn Engineering Works Newport, Mon., England

The Best Door Closer is . . .
NEWMAN'S INVINCIBLE FLOOR SPRING
Will close a door silently against any pressure of wind. Has many working advantages over the ordinary spring, and has twice the wear. In use throughout Great Britain and the Colonies. Gives perfect satisfaction. Made only by
W. NEWMAN & SONS,
Hospital St., - - - BIRMINGHAM

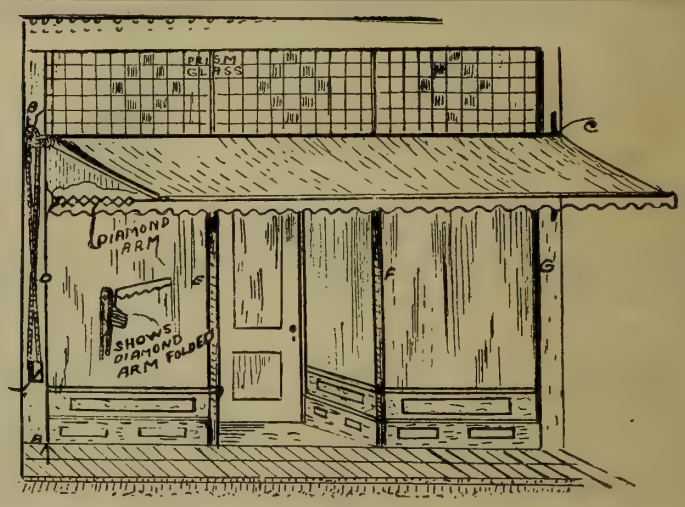
Are you interested in any of the lines that are advertised?
A Post Card will bring you price list and full information.
Don't forget to mention Hardware and Metal.

A PERMANENT and Handsome Roof.



Arrow Brand Asphalt Ready Roofing
Will bring you profitable trade and satisfied customers. Comes in rolls ready to lay, all ready covered with gravel. Requires no experience to lay, and lasts for years without further attention.
A. C. JENKING & CO, Sole Agents,
Room 215 Coristine Building, - MONTREAL.
Sole agents being appointed in each district. Write to-day.

O-SO-EZY
The Best Hardwood Floor Dressing and Furniture Polish
IN BBL. LOTS $1.50 PER GAL. SINGLE GALS., $1.75.
AGENTS WANTED. For further particulars write
O-So-Ezy Mfg. Co., Limited, 205 St. James St., Montreal



All the Awnings Made

are not good awnings. In fact, we would not care to use to-day the awnings we made a few years ago. An out-of-date awning is good enough for an out-of-date store. If, however, you are a progressive merchant and want

A Good Awning

write us for prices. Our 50-ft. roller awning can be operated by a boy. It will give you more wear and put you in a better humor for the whole day.

WM. BARTLETT & SON, 16 Adelaide St. West, TORONTO.

Toronto Rubber Roofing

WEATHER-PROOF,
ROT-PROOF,
FIRE-PROOF.

Send for Samples

A VERY SALABLE ARTICLE

Best Prices to Trade

All material complete in each Roll.

LUXFER PRISM CO., LTD., 100 KING ST. W., TORONTO.

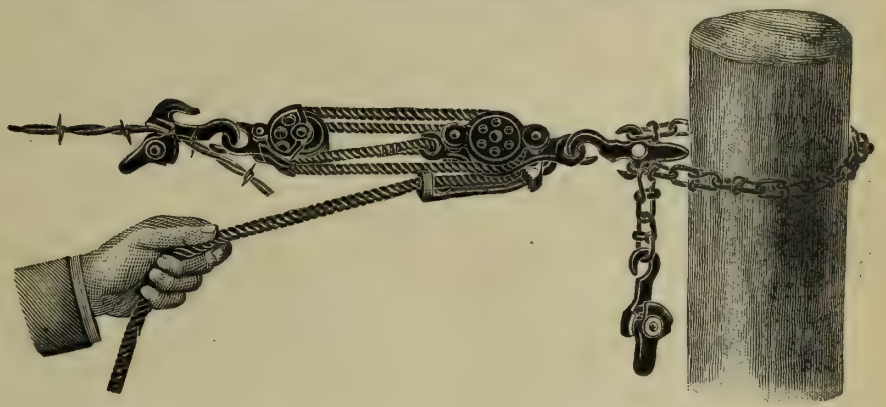
THIS IS THE

OLD STAND-BY

None better on the market unless it is the Triumph.

If your Jobber cannot supply, write us for prices.

NO. 233.—WILCOX TACKLE-BLOCK WIRE STRETCHER



WILCOX MFG. CO. OF ONTARIO, Limited, London, Ont.

MAXIMUM LIGHT GLASS

HOW IT DIFFERS — We might mention that all other devices designed for the purpose of increasing the daylight must be either placed as reflectors or awnings, or are dependent upon the refractory property of a prism, while the **MAXIMUM LIGHT GLASS,** a combination of lenses and prisms, embodies new principles of the laws of light, and makes an illuminating glass, where ordinary flat back prismatic glass is ineffective.

YOU WILL UNDERSTAND IT BETTER IF YOU HAVE A SAMPLE AND THE BOOKLET.

SOLE CANADIAN AGENTS:

THE HOBBS MANUFACTURING CO., Limited, LONDON, ONT.

Class Importers and Manufacturers.

STREET PAVING and SIDEWALKS a SPECIALTY

SILICA BARYTIC STONE CO.
OF ONTARIO Limited
Head Office:
Ingersoll, Ontario.
Walter Mills, General Manager
Ask for quotations for Septic Tanks.

Water Proof Floors for Malt Houses, Breweries, Slaughter Houses Cheese Factories, Cellar, Stable Floors, etc

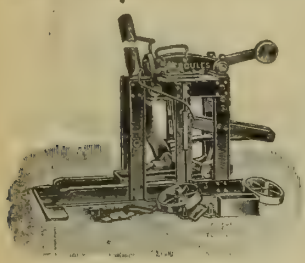
Will Hold Up a Shelf!

That's what a shelf bracket is for.

For this purpose there can be NOTHING BETTER, NOTHING CHEAPER than the BRADLEY STEEL BRACKET. It is well Japanned, Strong and Light. The saving in freight is a good profit, aside from the lower price at which the goods are sold. Order direct or through your jobber.

ATLAS MFG. CO.,
New Haven, Conn., U.S.A

Bricks! Bricks! Bricks!



If you know of anyone intending to make bricks, induce him to use one of our

Hercules Handpower Press

IT WILL PAY YOU

No previous experience needed.

BOSSON BROS., Engineers
P. O. Box 198 BRUSSELS (Belgium)
Cable Address "FORWARD BRUSSELS."
Indents through European merchants.

...FULL STOCK...

Salt Glazed Vitrified

SEWER PIPE

Double Strength Culvert Pipe a Specialty.

THE CANADIAN SEWER PIPE CO.
HAMILTON, ONT. TORONTO, ONT.
ST. JOHNS, QUE.

"THE MONARCH"

An A1 Block Machine, complete in every detail, and sold at a price which brings it within the reach of all.

For circulars and further information write

CONCRETE BLOCK MACHINE CO.
32 Church St., Toronto.

INDUSTRIAL GOSSIP

HARDWARE AND METAL would be pleased to receive from any authoritative source industrial news of any sort, the formation or incorporation of companies, establishment or enlargement of mills, factories, foundries or other works, railway or mining news. All correspondence will be treated as confidential when desired.

NOTHING has yet been announced as to the intentions of the U. S. Steel Co., and the impression is gaining ground that the recent tour through Western Ontario by the officials of that company was another grandstand play to bluff the steel producers in Canada from urging higher protection from the Government. It is unauthoratatively announced that "if" the Steel Trust invades the Canadian field, $10,000,000 will be spent in plant alone. How this would affect the Canadian manufacturers is a matter of doubt, as the development of the industry might provide enough work for all. Most of the Canadian companies are operating in specialties. The Dominion Steel Works, for instance, turn out rods and structural steel; the Nova Scotia Steel & Coal Co. is a general producer; the "Soo" plant devotes its attention to the manufacture of steel rails; the Hamilton Iron and Steel Co. is actively engaged in structural work, and the Midland Iron Works to the producing of pig iron. The United States Steel Co., with all its resources of wealth and minerals, will be no mean rival to these companies, but the advantage will undoubtedly rest with the Canadian consumer. The reason of the anxiety of the Steel Trust is on account of the imposition by this Government of a duty of $7 per ton on steel rails, and the anti-dumping clause of the new law, levying an extra tax or special duty of $3.50 per ton on rails sent to Canada at cut prices.

English capitalists are dickering for a site in Hamilton or Brantford for a new galvanized iron factory.

Wm. Paterson & Son, Brantford, have increased their biscuit factory by adding a large five-storey warehouse.

A saw mill having a capacity of 12,000 feet of lumber per day will be built at Kawatsie, 180 miles from Vancouver.

The Northern Elevator Co. are building a new elevator at Creelton, Man., and will erect a new one at Rossburn, Man.

The Detroit Oil Exchange, of Arizona, has been granted power to do business in Ontario. W. A. Drake, of Leamington, is the company's attorney.

Toronto has awarded the contract for a six million gallon pumping engine for the waterworks to the John McDougall Caledonian Iron Works, Montreal.

The Michigan and Ontario Oil Co., of Arizona, has been granted power to do business in Ontario. A. R. Bartlett, of Windsor, is the company's attorney.

McKeough & Trotter, Chatham, have secured additional premises and will manufacture gasoline engines, automobiles, etc., as well as continuing their foundry and boiler works.

A substantial addition is being made to the plant of the Wilkinson Plow Works at Toronto Junction, which will add greatly to the output of this firm and increase the staff of employes.

Peregrine Coal Co., Hamilton, share capital $40,000; purpose, to deal in fuel. The directors are: J. M. Peregrine, J. G. Sherring, E. H. Darling, F. J. McMichael, and C. E. Peregrine, all of Hamilton.

Chatham Bent Goods Co., Chatham, share capital $50,000; purpose, to manufacture vehicles. The directors are: S. G. Sullivan, Glencoe; A. Park, J. M. Park, G. J. Fielder and F. T. Merrill, of Chatham.

Brantford will have no pickle factory for this year at least. The Heinz people will content themselves with erecting the big pickling station and the shipments will be made to Burlington for manufacture.

The Morris Gasoline Engine Co., a firm which at present has a large plant in the United States, intend locating in Canada, and look favorably upon Toronto Junction, which their representatives have visited.

Mr. J. Morrison, of New York, who is interested in mining, and is associated with capitalists, has secured options upon certain properties in the northern part of Hastings County, with a view to developing the same.

The Vancouver Coal Co. have decided to build the new tipple and trestle at Coal Creek of steel. The new tipple will have a daily capacity of 4,000 tons, and every effort will be made to rush the work to completion as soon as possible.

Wm. Clark & Sons, Dundas, share capital $40,000; purpose, to manufacture cast iron and brass work. The directors are: W. Clark, F. Clark, W. F. Clark, F. J. Clark, all of Dundas; and J. Donald and J. L. Clark, of West Flamboro.

The Northern Elevator Co. have completed arrangements for the erection of a new flour mill in Winnipeg. The new mill will have a capacity of 3,000 barrels per day, and the elevator, which will be erected to supply the mill, will have a capacity of 250,000 barrels.

The Lake of the Woods Milling Co. will triple their capacity by building two new mills, one at Montreal with a capacity of 4,000 barrels, and one at Winnipeg, with a capacity of 5,000. This will put this company well in the front rank of milling companies of the world.

The Dominion Coal Co., of Glace Bay, N.S., have, it is said, purchased 30,000 tons of steel rails from the Cumberland Railway aad Coal Co., and are negotiating for the purchase of 250,000 tons more. The Cumberland Railway and Coal Co. are replacing these with heavier rails. The old rails will be used by the Dominion Coal Co. in their yards and sidings.

Interests identified with the International Nickel Company say there are no prospects of dividends in the near future. While the corporation is earning sufficient money to pay a substantial dividend on the preferred, the management has deemed it prudent to

suspend dividend action until a satisfactory working capital has been accumulated. Since the organization of the company practically all the earnings have been put into reconstruction and the general rehabilitation of plants. The stock is not dealt in on any of the exchanges. This is the company which operates the Canadian Copper Company's nickel mines at Sudbury.

The Dominoin Iron and Steel Co. are said to be preparing for the erection of plate and angle mills as soon as the rail mill is completed and in operation, which will be about the first of June. The blooming mill of the company has been double shifted, the first time in two years. Other mills will be put on double time shortly. The company has no labor troubles, but about two dozen bricklayers left its employ a week ago because a demand for increased wages was not granted.

COMPANIES INCORPORATED

The Metallic Roofing Co., of Toronto, has received power to increase its capital stock from $20,000 to $200,000.

Ottawa Stone Co., Ottawa, share capital $20,000; purpose, to manufacture building materials. The directors are: H. Robillard, B. Robillard, T. G. Brigham, W. G. Hayes, Jr., and P. J. Delaney, all of Ottawa.

Case Chandler Co., Winnipeg, share capital $50,000; purpose, to deal in building materials. The directors are: W. K. Chandler, J. C. Graham, T. R. Cave, F. C. Hubbard, and A. M. S. Ross, all of Winnipeg.

Western Canada Lumber Co., Brandon, share capital $40,000; purpose, to deal in building materials. The directors are: A. McEachern, R. J. McRae, J. A. McLay, W. C. Stedham, G. McEachern, and J. G. Cumming, all of Brandon.

Montreal Cement Co., Montreal, share capital $500,000; purpose, to manufacture portland cements and take over the business of T. M. Morgan. The directors are: J. Morgan, C. D. Morgan, J. W. Cook, and A. Falconer, all of Montreal.

Western Co-operative Construction Co., Winnipeg, share capital $20,000; purpose, to deal in building supplies and fuel. The directors are: O. Biollo, E. Marchetti, S. Cossavella, D. Volpatti, L. Tomasini, and D. L. Delcul, all of Winnipeg.

The Atikokan Iron Co., Toronto, share capital $1,000,000; purpose, to mine and mill minerals. The directors are: J. S. Dovell, W. Bain, R. Gowans, E. W. McNeil, R. Richardson, F. C. Annesley, A. J. Mitchell, and R. P. Ormsby, all of Toronto.

Wobun Steamship Co., New Glasgow, Nova Scotia, share capital $48,000; purpose, to operate vessels of all kinds. The directors are: G. Stairs, of Halifax; J. D. McGregor, J. C. McGregor, T. Cantley, G. McKay and H. Graham, all of New Glasgow.

Laurie Engine Co., Montreal, share capital $250,000; purpose, to carry on the business of manufacturing engines and electrical machinery. The directors are: D. Yuile, C. E. L. Portius, A. E. Madley, J. N. Mackie, all of Montreal; and A. E. Woodword, of St. Lambert, Quebec.

Pedlar Talks

No. 2. OSHAWA, ONT. APRIL 28, 1905

METAL v. WOOD LATH

IT had to come—the time when men would seek to make building lath from Metal.

Wood is getting scarcer and dearer all the time.

Then, too, modern building construction requires fire-proof material. Wood lath is not even considered now-a-days in many buildings where fire-proofing is imperative.

Cement, too, is playing a large part in the development of the Metal Lath business. Cement and Metal Lath together make possible many ideals of building construction. Either without the other would be useless.

Metal Lath is a line that the hardware dealer can handle with advantage, and opens up a new field of profit-making.

Send for a sample of "Perfect" Metal Lath.

CEMENT and METAL LATH

WE have said something about the part cement plays in building construction, associated with Metal Lath. We have prepared an instructive booklet that takes up this subject of Cement and Metal Lath, and wish every hardware dealer to have a copy.

This booklet is sent free to any one requesting it.

The hardware dealer is the natural agent for Metal Lath. He is closest to all building contracts, and metal products are in his line.

We should like to talk over with every hardware dealer the agency question.

In the meantime send for a sample of our "Perfect" Metal Lath. THE PEDLAR PEOPLE, Oshawa, Ont., Eastern Warehouse 767 Craig St., Montreal.

IT IS A FACT

That we lead in our lines. You believe **quality** counts, and so all sensible people agree. **The increase in our trade is a living testimony to the high grade stock which we manufacture.**

ASK FOR OUR QUOTATIONS—THEY WILL INTEREST YOU.

Ready Roofing, Sheathing and Black  **Diamond Tarred Felts, Building Papers, Fibre and Manilla Wrappings, etc.**

FELT FACTORY, Harbour and Logan Sts., MONTREAL. PAPER MILLS—JOLIETTE, Que.

ALEX. McARTHUR & CO., Limited,

82 McGill Street, - MONTREAL

CURRENT MARKET QUOTATIONS.

April 28, 1905.

These prices are for such qualities and quantities as are usually ordered by retail dealers on the usual terms of credit, the lowest figures being for larger quantities and prompt pay. Large cash buyers can frequently make purchases at better prices. The Editor is anxious to be informed at once of any apparent errors in this list, as the desire is to make it perfectly accurate.

METALS.

TIN.

Lamb and Flag and Straits—	
56 and 28-lb. ingots, 100 lb.	$32 00 $33 00

TINPLATES.

Charcoal Plates—Bright.

	Per box.
M.L.S., equal to Bradley—	
I C, usual sizes	$6 50
I X "	8 00
I X X "	9 50
Famous, equal to Bradley—	
I C	6 50
I X	8 00
I X X	9 50
Raven and Vulture Grades—	
I C, usual sizes	4 25
I X "	5 00
I X X "	5 75
I X X X "	6 50

"Dominion Crown Best"—Double Coated, Tissued.

	Per box.
I C	5 50
I X	6 50
I X X	7 50
I Allaway's Best"—Standard Quality.	
I C	4 50
I X	5 50
X	6 50

X Coke Plates—Bright.

Bessemer Steel—	
I.C., usual size, 14x20	3 50
I.C., special sizes, base	3 75
20x28	7 50

Charcoal Plates—Terne

Dean or J. G. Grade—	
I.C., 20x28, 112 sheets	7 50
IX., Terne Tin	10 50

Charcoal Tin Boiler Plates.

Cookley Grade—	
X X, 14x56, 50 sheet bxs.	7 00
" 14x60, "	
" 14x65, "	

Tinned Sheets.

72x30 up to 24 gauge	7 25	7 50
" " 26 "	7 75	8 00

IRON AND STEEL.

	Montreal.	Toronto.
Common bar, per 100 lb	1 80	1 80
Forged iron "	2 05	2 05
Refined "	2 20	2 05
Horseshoe iron "	2 02½	....
Hoop steel, 1½ to 3 in. base	....	....
Sleigh shoe steel "	1 97½	....
Tire steel	2 07½	....
T. Firth & Sons, tool steel—		
Speedicut	....	0 60
Annealed speedicut	....	0 65
Self-hardening	....	0 36
Best tool steel	....	0 12
Warranted	....	0 09
Best sheet steel	....	0 12
B. K. Morton & Co.—		
"Alpha" high speed	....	0 65
" annealed	....	0 70
"M" Self-hardening	....	0 50
"J" quality	....	0 18
"I" "	....	0 14
"BC" "	....	0 09
Jonas & Colver's tool steel	0 10	0 20
" "Novo"	....	0 65
" " annealed	....	0 70
Chas. Leonard	0 08	0 09
Crucible Steel Co.—		
" Rex high speed steel	0 65	0 75
" Self-hardening	0 45	0 50
Crucible Special	....	0 17
" Silver steel	....	0 13
" Black Diamond	0 10	0 11
Sanderson's Crucible steel	0 08	0 09
" Superior "	0 12	0 13

BABBIT METAL.

Syracuse Smelting Works:

Aluminum, genuine	0 45
Government, "	0 44
Tough, "	0 40
Hard, "	0 40
Dynamo	0 30
Special	0 25
Maganese	0 18
Car Box	0 17
Extra	0 13
No. 1	0 10
No. 2	0 07
No. 3	0 05½

Large orders subject to discounts.

The Canada Metal Co.:

Imperial, genuine	0 40
Metallic	0 30
Hercules	0 20
Star	0 15
No. 1	0 12
No. 2	0 10
No. 3	0 06
No. 4	0 05

BLACK SHEETS.

	Montreal.	Toronto
10 gauge	2 30	2 30
12 and 14 gauge	2 25	2 35
17 "	2 20	2 40
22 to 24 gauge	2 05	2 50
26 "	2 10	2 65
28 "	2 15	2 70

COPPER WIRE.

Discount, 50 per cent.

CANADA PLATES.

Ordinary	2 50
All bright	3 75
Galvanized Canada Plates—	

J. C. M. 3 Crowns

16 x 21 x 60	3 33
18 x 24 x 52	3 33
18 x 24 x 60	3 56

	Ordinary.	Dom. Crown.
18x24x52	4 25	4 35
" 60	4 50	4 60
20x28x80	8 50	8 70
" 94	9 00	9 20

GALVANIZED SHEETS.

	Fleur-de-Lis.	Gordon Crown.
16 to 20 gauge	3 40	....
22 to 24 gauge	3 50	3 50
26 "	3 75	3 75
28 "	4 00	4 15

	Comet Bell.	Queen's Head
16 to 20 gauge	3 40	....
22 to 24 gauge	3 45	3 65
26 "	3 70	3 90
28 "	3 95	4 15

American brands, $3.90 for 10¾ oz.
Less than case lots 10 to 15c. extra.

CHAIN.

Proof coil, 3-16 in., per 100 lb.	7 00	10 00
" ¼ "	....	5 60
" 5-16 "	....	4 45
" ⅜ "	....	3 85
" 7-16 "	....	3 70
" ½ "	....	3 55
" 9-16 "	....	3 45
" ⅝ "	....	3 35
" ¾ "	....	3 25

Halter, kennel and post chains, 40 to 40 and 5 per cent.

Cow ties	40 p.c.
Tie out chains	65 p.c.
Stall fixtures	35 p.c.
Trace chain	45 p.c.

Jack chain, iron, single and double, discount 35 p.c. [count 40 p.c.

Jack chain, brass, single and double, dis-

COPPER.

	Ingot.	Per 100 lb.
Casting, car lots	16 25	16 50

Bars.

Cut lengths, round, ½ to ⅞ in.	21 00	23 00
" round and square,		
Cut 1 to 2 inches	21 00	23 00

Sheet.

Plain, 16 oz., 14x48 and 14x60	21 00
Plain, 14 oz.	22 00
inned copper sheet	24 00
lanished	32 00

Braziers' (in sheets).

4x6 ft., 25 to 30 lb. each, per lb.	0 22
" 35 to 45 " "	0 21
" 50-lb. and above "	0 20

BOILER AND T.K. PITTS.

Plain tinned, Spun } 41½ per cent. off list.

BRASS.

Rod and Sheet, 14 to 30 gauge, 10 per cent.	
Sheets, hard-rolled, 2x4	0 23
Tubing, base, per lb.	0 23½

ZINC SPELTER.

Foreign, per 100 lb	7 00	....
Domestic " "	6 75	7 00

ZINC SHEET.

5-cwt. casks	7 00
Part casks	7 25

LEAD.

Imported Pig, per 100 lb.	3 50	3 75
Bar, " "	....	4 80
Sheets, 2½ lb. sq. ft., by roll	....	0 06½
Sheets, 3 to 6 lb. "	....	0 06

NOTE.—Cut sheets ½c. per lb., extra. Pipe, by the roll, usual weights per yard, lists at 7c. per lb. and 35 p.c lis. f.o.b. Toronto.

NOTE.—Cut lengths, net price, waste pipe 8-ft. lengths, lists at 8c.

ANTIMONY.

Cookson's per lb.	0 09½

SHOT.

Common, $6.50 per 100 lb.; chilled, $7.00 per 100 lb.; buck, seal and ball, $7.50. Discount, 15 p.c. Prices are f.o.b. Toronto, Hamilton, Montreal, St. John and Halifax. Terms, 2 p.c. for cash in thirty days.

PLUMBING GOODS.

BATH TUBS.

Zinc	6 00
Copper, discount 20 per cent. off revised list.	

BATHS.

Standard Ideal Enameled.

5½-ft.	2½	in. rolled rim,	1st quality	....	21 25
5½	"	" "	2nd "	....	17 25
5½	3	" "	1st "	....	23 60
5½	"	" "	2nd "	....	19 00
5	2½	" "	1st "	....	18 40
5	"	" "	2nd "	....	15 80
5	3	" "	1st "	....	20 75
5	"	" "	2nd "	....	17 25
Plate 116 D, lavatories			1st quality	....	8 90
" 116 D,		"	2nd "	....	7 50
" 118 D,		"	1st "	....	5 70
" 118 D,		"	2nd "	....	4 80
" 120 D,		"	1st "	....	5 60
" 120 D,		"	2nd "	....	4 70
" 122 D,		"	1st "	....	5 40
" 122 D.		"	2nd "	....	4 50
Sinks 18 x 30 in flat rim, A quality					2 75
" " " " "			B "		2 50

IRON PIPE.

Black pipe—	Per 100 feet.
⅛ inch	2 75
¼ "	2 04
⅜ "	2 06
½ "	2 30
¾ "	2 88
1 "	4 12
1¼ "	5 62
1½ "	6 75
2 "	9 00

Galvanized pipe—	
⅛ inch	2 86
¼ "	2 89
⅜ "	3 14
½ "	4 02
¾ "	5 77
1 "	7 88
1¼ "	9 45
1½ "	12 60
2 "	

Malleable Fittings—Canadian discount 35 per cent. American discount 20 to 25 per cent.

Cast Iron Fittings—Standard bushings 50 and 10 and 10 per cent.; headers, 60; flanged unions and lipped, 60 and 5; malleable bushings, 65; nipples, up to 6 in., 75.

PLUMBERS' BRASS GOODS.

Standard Compression work, dis. 60 p.c.
Cushion work, discount 50 per cent.
Fuller work, discount 65 per cent.
6 dozen lots and over of the above, extra discount 10 per cent.
Lever handle Stops and Waste, discount 55 per cent. With in lots of 2 dozen and over an extra discount of 10 per cent.
J.M.T. Globe, Angle and Check Valves, discount 55 per cent.
Standard Globe, Angle and Check Valves, discount 65 per cent.
Kerr's special standard globes and angles, discount 55 per cent.
Kerr's Jenkin disc, copper-alloy disc and heavy standard valves, discount 55 percent.
Kerr's standard brass checks, discount 55 p.c.
Kerr's standard brass disc steam radiator valves, discount 65 per cent.
Kerr's Jenkin disc, copper-alloy disc radiator valves, discount 65 per cent.
Kerr's quick-opening hot-water radiator valves, discount 65 per cent.
Weber's (Kerr) patent straightway gate valves, brass, discount 50 per cent.
Weber's (Kerr) patent straightway gate valves, I.B.B.M., discount 60 and 10 per cent.
J. M. T. Radiator Valves discount 55 per cent.
Standard Radiator Valves, discount 65 per cent.

Patent Quick-Opening Valves, discount 7 and 10 per cent.

No. 1 compression bath cock net	1 75
No. 4 " " "	1 90
No .7 Fuller's "	2 20
No. 4½, " "	2 35

Patent Compression Cushion, basin cock, hot and cold, per doz., $31; 5 and 10 per cent. discount.

Patent Compression Cushion, bath cock, No. 2208 2 25

Square head brass cocks, discount 55 per cent

" " iron " "	60 "
Thompson Smoke-test Machine	$25.00

RANGE BOILERS.

Copper, 30 gallon	22 00
" 35 "	24 00
" 40 "	28 00

Discount off copper boilers 15 per cent.

GALVANIZED IRON RANGE BOILERS.

Capacity. Gals.	Standard.	Extra heavy
12	4.50	6.50
18	4.75	6.75
24	4.75	6.75
30	5.00	7.50
35	6.00	8.50
40	7.00	9.50
52	11.00	14.00
66	18.00	20.00
82	21.00	24.00
100	29.00	34.00
120	34.00	40.00
144	47.00	55.00

American Steel & Wire Co.

New York Empire Building | **Montreal** N. Y. Life Building | **Chicago** The Rookery

BARBED WIRE CALVANIZED PLAIN WIRE PLAIN TWIST CABLE FENCING

Telegraph and Telephone Wire; Mattress, Broom, Weaving Wires of every description; Rail Bonds, Bale Ties, Special Wires for all purposes, Springs, Horse Shoes, Wire Rope, Cold-drawn Steel Shafting.

SOIL PIPE AND FITTINGS.

Med. and Extra heavy pipe and fittings, dis. 60 per cent.
7 and 8-in. pipe, discount 40 and 5 per cent.

SOLDER.

	Per lb
Bar, half-and-half, guaranteed	0 17½
Wiping	0 15½
Refined	0 16½

PAINTS AND OILS.

COLORS IN OIL.

1-lb. tins, pure.

Venetian red, per lb.	0 08
Chrome yellow	0 15
Golden ochre	0 08
French "	0 06
Marine black	0 04
Chrome green	0 10
French permanent green	0 13
Signwriters' black	0 15

WHITE LEAD.

	Per 100 lb.
Pure	4 75
No. 1	4 50
No. 2	4 30
No. 3	3 37½
No. 4	3 35
Munro's Select Flake White	4 75
Elephant and Decorators' Pure	4 75
Tiger brand, pure	5 00
Decorators' Special for exterior use	4 25
Monarch	5 00
Decorator's Pure	4 75
Essex Genuine	4 25
Sterling Pure	5 00
Island City Pure	5 00
Ramsay's Pure Lead	4 75 5 00
Ramsay's Exterior	4 50 4 75

RED LEAD.

Genuine, 560 lb. casks, per cwt	$4 50
Genuine, 100 lb. kegs, "	4 75
No. 1, 560 lb. casks, per cwt	4 00 4 25
No. 1, 100 lb. kegs, per cwt	4 75

WHITE ZINC.

Extra Red Seal	0 06 0 08
French V. M.	0 06½ 0 07
Lehigh	0 06 0 06½
Pure	0 07½
No. 1	0 06½
No. 2	0 05½

DRY WHITE LEAD.

Pure, casks	4 50
Pure, kegs	4 75
No. 1, casks	4 00
No. 1, kegs	4 25

PREPARED PAINTS.

In ¼, ½ and 1-gallon tins.

Pure, per gallon	1 20
Second qualities, per gallon	1 00
Barn (in bbls.)	0 60 0 90
The Sherwin-Williams paints	1 35
Canada Paint Co.'s pure	1 25
Toronto Lead & Color Co's pure	1 25
Sanderson Pearcy's pure	1 20
Standard Co.'s "New Era."	1 30
"Globe" barn	60 70
Francis-Frost Co.'s "Ark" B'd	1 25
" British Navy deck	1 50
Henderson & Potts's "Anchor"	1 35
Ramsay's paints, Pure, per gal.	1 20
" Thistle, "	1 00
" Outside, bbls	0 55 0 65
Island City House Paint	1 25
" Floor "	1 25
Sterling House Paint	1 20
" Floor "	1 10
Stewart & Wood's pure	1 20
National	1 05

PARIS GREEN.

Petroleum, barrels, per lb.	0 13½
Arsenic, kegs	0 13½
50 and 100-lb. drums	0 14
25-lb. drums	0 14½
1-lb. paper boxes	0 15
½-lb. paper boxes	0 17

Terms—2 per cent. off 30 days, or 90 days

PUTTY.

Bulk in bbls.	1 50
Bulk in less quantity	1 80
Bladders in bbls.	1 65 1 75
Bladders in kegs, boxes or loose	1 90
25-lb. tins	1 80
12½ lb. tins	2 05
Bladders in bulk or tins less than 100 lb.	1 85

VARNISHES.

	In 5-gal. lots. Per gal.	Net.
Carriage, No. 1	1 50	1 60
Pale durable body	4 10	4 25
" rubbing	2 85	3 20
Gold size, japan	1 50	1 60
No. 1 brown japan	0 85	0 90
Elastic oak		1 50
Furniture, extra	1 10	1 25
" No. 1	0 90	1 00
Hard oil finish	1 35	1 50
Light oil finish	1 60	1 70
Damar	1 75	2 00
Shellac, white	2 40	2 50
" orange	2 30	2 40
Turpentine, brown japan	1 10	1 20
" black japan	1 10	1 20
" No. 1.	0 85	0 90
Elastilite varnish, 1 gal. can, each		2 00
Granitine floor finish, per gal.		2 75
Maple Leaf coach enamels; size 1, $1.20; size 2, 70c.; size 3, 40c. each.		
Sherwin-Williams' kopal varnish, assorted case, from to 1 gal., $2.50.		

GLUE.

Common	0 08 0 08½
French medal	0 10 0 14
White, extra	0 18 0 22
Gelatine	
Strip	0 18 0 20
Coopers	0 19 0 20
Huttner	
Ground	0 12 0 16
Cologne, genuine	

HARDWARE.

AMMUNITION.

Cartridges.

B. B. Caps Dominion, 50 and 5 and 25 per cent. American $2.00 per 1000.
C. B. Caps American, $2.60 per 1000.
Rim Fire Pistol, discount 30 p.c., American.
Rim Fire Cartridges, Dominion, 50 and 5 p.c.
Central Fire, Military and Sporting, American, add 20 per cent. to list. B.B. Caps, discount 40 per cent., American.
Central Fire Pistol and Rifle, list net Amer.
Central Fire Cartridges, pistol sizes, Dominion, 30 per cent.
Central Fire Cartridges, Sporting and Military, Dominion, 15 per cent. American 10 per cent. advance on list.
Loaded and empty Shells, "Trap" and "Dominion" grades, 25 per cent. discount. American 20 per cent. discount. Rival and Nitro, 10 per cent. advance on list.
Brass Shot Shells, 55 per cent.
Primers, Dom., 30 per cent.; American, $1.75

Wads. per lb.

Best thick brown or grey felt wads, in ½-lb. bags	$0 70
Best thick white card wads, in boxes of 500 each, 12 and smaller gauges	0 29
Best thick white card wads, in boxes of 500 each, 10 gauge	0 35
Thin card wads, in boxes of 1,000 each, 12 and smaller gauges	0 20
Thin card wads, in boxes of 1,000 each, 10 gauge	0 25

Chemically prepared black edge grey cloth wads, in boxes of 250 each— Per M.

11 and smaller gauge	0 60
9 and 10 gauges	0 70
7 and 8 "	0 90
5 and 6 "	1 10

Superior chemically prepared pink edge, best white cloth wads, in boxes of 250 each—

11 and smaller gauge	1 15
9 and 10 gauges	1 40
7 and 8 "	1 65
5 and 6 "	1 90

ADZES.

Discount 22½ per cent.

ANVILS.

Wright's, 80-lb. and over	0 10½
Hay Budden, 80-lb. and over	0 09½
Brook's, 80-lb. and over	0 11½

APPLE PARERS.

Woodyatt Hudson, per doz., net 4 50

AUGERS.

Gilmour's, discount 60 per cent. off list.

AXES.

Chopping Axes		
Single bit, per doz.	7 00	10 00
Double bit, "	10 00	18 00
Bench Axes, 40 per cent.		
Broad Axes, 25 per cent.		
Hunters' Axes	5 50	6 00
Boys' Axes	6 25	7 00
Splitting Axes	7 00	12 00
Handled Axes		10 00

AMERICAN AXE AND TOOL CO.

Red Ridge, boys', handled	5 75
" hunters	5 25

Underhill American Bench Axes, 40 p.c.

AXLE GREASE.

Ordinary, per gross	6 00 7 00
Best quality	10 00 12 00

BELLS.

Hand.

Brass, 60 per cent.
Nickel, 55 per cent.

Cow.

American make, discount 63⅔ per cent.
Canadian, discount 45 and 50 per cent.

Door.

Gongs, Sargant's	5 50 8 00
" Peterboro', discount 50 and 10 per cent. off new list.	

Farm.

American, each	1 35 3 00

House.

American, per lb.	0 35 0 40

BELTING.

Extra, 60 per cent.
Standard, 60 and 10 per cent.
No. 1, not wider than 6 in., 60, 10 and 10 per cent.
Agricultural, not wider than 4 in., 75 per cent.

BITS.

Auger.

Gilmour's, discount 60 per cent.
Rockford, discount 50 and 10 per cent.
Jennings' Gen., net list.

Car.

Gilmour's, 47½ per cent.

Expansive.

Clark's, 40 per cent.

Gimlet.

Clark's, per doz	0 65 0 90
Diamond, Shell, per doz.	1 00 1 50
Nail and Spike, per gross	2 25 5 20

BLIND AND BED STAPLES.

All sizes, per lb.	0 07½ 0 12

BOLTS AND NUTS

	Per cent.
Carriage Bolts, common (#1 list	
" " ⅝ and smaller	60 and 10
" " 7-16 and up	55 and 5
" " full sq. ($2.40 list)	60
" " Norway Iron ($3 list)	60
Machine Bolts, all sizes, ⅝ and less	55
Machine Bolts, 7-16 and up	55 and 5
Plough Bolts	55 and 5
Blank Bolts	55 and 5
Bolt Ends	55 and 5
Sleigh Shoe Bolts	70
Coach Screws, cone point	70 and 5

Nuts, square, all sizes, 4c. per lb. off.
Nuts, hexagon, all sizes, 4½c. per lb. off.
Stove Rods per lb., 5½ to 6c.

BOOT CALKS.

Small and medium, ball per M.	4 25
Small heel "	4 50

BRIGHT WIRE GOODS.

Discount 62½ per cent.

BUTCHERS' CLEAVERS.

German per doz.	6 00 9 00
American "	12 00 18 00

BUTCHER KNIVES.

Bailey's per doz.	0 60 6 30

BUILDING PAPER, ETC

Tarred Felt, per 100 lb.	1 85
Ready roofing, 2-ply, not under 45 lb. per roll	0 90
Ready roofing, 3-ply, not under 65 lb., per roll	1 15
Carpet Felt per ton	45 00
Heavy Straw Sheathing per ton	35 00
Dry Sheathing per roll, 400 sq. ft.	0 40
Tar " " 400 "	0 50
Dry Fibre " 400 "	0 40
Tarred Fibre " 400 "	0 50
O. K. & I. X. L. " 400 "	0 70
Resin-sized " 400 "	0 45
Oiled Sheathing " 600 "	1 00
Oiled " " 400 "	0 70
Root Coating, in barrels per gal.	0 17
Roof " small packages "	0 25
Refined Tar per barrel	5 00
Coal Tar "	4 00
Coal Tar, less than barrels per gal.	0 15
Roofing Pitch per 100 lb.	0 90
Slater's felt per roll	0 60

BULL RINGS.

Copper, $1.30 for 2½-inch, and $1.70

BUTTS.

Wrought Brass, net revised list.

Cast Iron.

Loose Pin, discount 60 per cent

Wrought Steel.

Fast Joint, discount 70 to 70 and 5 per cent.
Loose Pin, discount 70 to 70 and 5 per cent.

CARPET STRETCHERS.

American per doz.	1 00 1 50
Bullard's "	6 50

CASTORS.

Bed, new list, discount 55 to 57½ per cent.
Plate, discount 52½ to 57½ per cent.

CATTLE LEADERS.

Nos. 32 and 33 per gross	7 50 8 50

CHALK.

Carpenters' Colored, per gross	0 45 0 75
White lump per cwt.	0 60 0 65
Red	0 05 0 06
Crayon per gross	0 14 0 18

CHISELS.

Socket, Framing and Firmer.

Broad's, discount 70 and 5 per cent.
Warnock's, discount 70 per cent.
P. S. & W. Extra, discount 60 and 10 per cent.

FOODS—STOCK.

Colonial Stock Foods, 50c. packages, per doz	$4 00
" " " 25c. pkgs., "	2 00
" " " 10c. " "	75
" " " 25-lb. pail, each	1 80
Poultry Foods, 25c. packages	1 25
Cough Powders, per doz.	1 25
Worm " "	1 25
Internation 1 Stock Foods, $1 packages, per doz.	8 00
International Stock Foods, per pail	2 75
" " per bbl.	10 50
" Poultry " $1 pkgs, per doz	8 00
" Worm Powders, 50c. pkgs.	4 00
" Pine Healing Oil, per doz	8 00
" Pheno-Chloro, $1 pkgs, per doz	8 00
" Hoof Ointment	2 00
" Compound Absorbent	16 00

Also 25c. pkgs. at $2 per doz. 50c. pkgs. 4 per doz.

CLOTHES REELS.

Davis Clothes Reels, dis. 40 per cent

Paterson's Wire Edged Ready Roofing

Fire-proof and Sanitary:
Easy to put on:
Hard to wear out:
Don't cost much.

You have hundreds of Customers who require that kind of Roofing Material.

The Paterson Mfg. Co., Limited

Toronto and Montreal.

CONDUCTOR PIPE.

Plain or Corrugated.

2-inch	per 100 feet	3 00
3 "	" "	4 00
4 "	" "	5 25
5 "	" "	6 75
6 "	" "	9 00

CRADLES, GRAIN.

Canadian, discount 20 to 25 per cent.

CROSSCUT SAW HANDLES.

S. & D., No. 3	per pair	0 15
S. & D., " 5	"	0 22½
S. & D., " 6	"	0 15
Boynton pattern	"	0 20

DOOR SPRINGS.

Torrey's Rod	per doz.	....	1 75
Coil, 9 to 11 in	"	0 95	1 65
English	"	2 00	4 00

DRAW KNIVES.

Coach and Wagon, discount 50 per cent.
Carpenters' discount 70 per cent.

DRILLS.

Hand and Breast.

Millar's Falls, per doz., net list.

DRILL BITS.

Morse, discount 37½ to 40 per cent.
Standard, discount 50 and 5 to 55 per cent.

FAUCETS.

Common, cork-lined, discount 35 per cent.

EAVETROUGHS.

10-inch per 100 ft. 10 00

ELBOWS (stovepipe.)

5 and 6-inch, common	per doz.	1 20
7-inch	"	1 35

Polished, 15c. per dozen extra.

ESCUTCHEONS.

Discount 50 and 10 per cent., new list

ESCUTCHEON PINS.

Iron, discount 40 per cent.

FACTORY MILK CANS.

Discount off revised list, 40 per cent.

FILES AND RASPS.

Great Western	70	and 10	per cent.
Arcade	70	" 10	"
Kearney & Foot	70	" 10	"
Disston's	70	" 10	"
American	70	" 10	"
J. Barton Smith	70	" 10	"
McClellan	70	" 10	"
Eagle	70	" 10	"
Nicholson, 60 and 10 to 60, 10 and	5		"
Royal	80		"
Globe	70 to 75		"

Black Diamond, 60 and 10 to 60, 10 and 5 per cent.
Jowitt's, English list, 25 to 27½ per cent.
Nicholson File Co.'s "Simplicity" file handle, per gross 85c. to $1.50

GLASS.

Window. Box Price.

Size United Inches.	Star Per 50 ft.	Star Per 100 ft.	D. Diamond Per 50 ft.	D. Diamond Per 100 ft.
Under 26	....	3 80	....	5 06
26 to 40	....	4 00	....	5 44
41 to 50	....	4 50	....	6 56
51 to 60	....	4 75	....	7 50
61 to 70	....	5 00	....	8 62
71 to 80	....	5 30	....	9 38
81 to 85	....	....	....	10 75
86 to 90	....	....	....	12 30
91 to 95	....	....	....	15 00
96 to 100	....	....	....	18 00
96 to 100	....	....	....	18 00

GAUGES.

Marking, Mortise, Etc.

Stanley's discount 50 to 55 per cent.

Wire Gauges.

Winn's, Nos. 26 to 33	each	1 65	2 40

GILLETT'S POWDERED LYE.

1-case, $3.70; 3-case, $3.60; 5-case and over, $3.50.

HALTERS.

Rope, ⅜-inch	per gross	....	9 00
Rope, ½ "	"	....	12 00
Rope, ⅝ to ¾-inch	"	....	14 00
Leather, 1-inch	per doz.	....	4 00
Leather, 1¼ "	"	....	5 20
Web	"	....	2 45

HAMMERS.

Nail.

Maydole's, discount 5 to 10 per cent. Canadian discount 25 to 27½ per cent.

Tack.

Magnetic	per doz.	1 10	1 20

Sledge.

Canadian	per lb.	0 07	0 08½

Ball Pean.

English and Canadian, per lb.		2½	0 25

HANDLES.

Axe, 2nd growth, per doz. net		3 00	4 00
Store door	per doz.	1 00	1 50

Fork.

C. & B., discount 40 per cent., revised list.

Hoe.

C. & B., discount 40 per cent., revised list.

Saw.

American	per doz	1 00	1 25

Plane.

American	per gross	3 15	3 75

Hammer and Hatchet.

Canadian, discount 40 per cent.

HANGERS.

	doz.	pairs.
Steel barn door	8 00	10 00
Stearns, 4-inch	....	4 50
" 5-inch	....	6 00
Zenith	....	9 00
Lane's covered—		
No. 11, 5-foot run	....	8 40
No. 11½, 10-foot run	....	10 80
No. 12, 10-foot run	....	12 60
No. 14, 15-foot run	....	21 00
Steel, covered	4 00	11 00
" track, 1 x 3-16 in(100 ft)	....	3 75
" " 1¼ x 3-16 in(100 ft)	....	4 75

HARVEST TOOLS.

Discount 60 per cent.
S. & D. lawn rakes, Dunn's, 40 off.
" sidewalk and stable scrapers, 40 off.
" Maple Leaf and Premiums saw sets, 40 off.
" saw swages, 40 off.

HATCHETS.

Canadian, discount 40 to 42½ per cent.

Shingle, Red Ridge 1, per doz		....	4 40
" " 2, "		....	4 85
Barrel, Underhill		....	5 00

HAT ENAMEL.

Henderson & Potts' "Anchor Brand"

HINGES.

Blind, Parker's, discount 60 per cent.

Heavy T and strap, 4-in., per lb		0 06½
" " 5-in., "		0 06½
" " 6-in., "		0 06
" " 8-in., "		0 05½
" " 10-in., "		0 05½

Light T and strap, discount 65 and 5 per cent.

Screw hook and hinge—			
6 to 10 in	per 100 lb.	....	4 50
12 in. up	"	....	3 25
Spring, No. 20, per gro. pairs		....	10 80

Spring, Woodyatt pattern, per gro.. No. 5, $17.50; No. 10, $18; No. 20, $10.80; No. 120, $20; No. 51, $10; No. 50, $27.50.

HOES.

Garden, Mortar, etc., discount 60 per cent.

Planter	per doz.	4 00	4 50

HOLLOW WARE.

Tinned cast, 35 per cent.

HOOKS.

Cast Iron.

Bird cage	per doz.	0 50	1 10
Clothes line, No. 61	"	0 00	0 70
Harness	"	0 60	12 00
Hat and coat	per gro.	1 10	10 00
Chandelier	per doz.	0 50	1 00

Wrought Iron.

Wrought hooks and staples Canadian discount 60 per cent.

Wire.

Hat and coat, discount 60 per cent.

Belt	per 1,000	0 60

Screw, bright, discount 62½ per cent.

HORSE NAILS.

"P.B." Brand, 55 to 60 per cent.
"C' brand, 40, 10 and 7½ per cent. off list { Oval
M.R.M. Co. brand, 55 per cent. { head
"Monarch," 50 and 7½ per cent.
"Peerless" 50 per cent. dis.

HORSESHOES.

F.O.B. Montrea

"P.B." brand, new pattern, base	$3 50
M.R.M.Co. brand, base	3 65

Add 15c. Toronto, Hamilton, Guelph.

JAPANNED WARE.

50 per cent.

PICKS.

Star	per doz.	3 00	3 25

KETTLES.

Brass spun 7½ per cent. discount off new list.

Copper	per lb.	0 30	0 50

American, 60 and 10 to 65 and 5 per cent.

KEYS.

Lock, Canadian dis. 40 to 40 and 10 per cent.

Cabinet trunk and padlock		
American	per gross	0 60

KNOBS.

Door, japanned and N.P., per doz		1 50	2 50
Bronze, Berlin	per doz.	2 75	3 25
Bronze, Genuine	"	6 00	9 00
Shutter, porcelain, F. & L. screw	per gross	1 30	2 00
White door knobs	per doz.	....	2 00

HAY KNIVES.

Net prices.

LAMP WICKS.

Discount, 60 per cent.

LADDERS, EXTENSION.

Waggoner Extension Ladders, dis. 40 per cent.

LANTERNS.

Cold Blast	per doz.	4 50	
No. 3, "Wright's"	"	8 50	
Ordinary, with O burner	"	4 00	
Dashboard, cold blast	"	9 00	
No. 0	"	5 75	
Japanning, 50c. per doz. extra.			

LEMON SQUEEZERS.

Porcelain lined	per doz.	2 20	5 60
Galvanized	"	1 87	3 85
King, wood	"	2 75	2 90
King, glass	"	4 00	4 50
All glass	"	0 50	0 90

LAWN MOWERS FOR 1905.

Woodyatt, 10½-in., 14-in. cut		$ 8 50 to	$11 00
Star, 9 -in.	"	6 00 to	6 50
Daisy, 8 -in.	"	5 25 to	5 75
Philadelphia, 7½-in.	"	6 00 to	7 50
Woodyatt, 10½-in., ball bearing		13 25 to	18 00
Grass Boxes		1 75 to	2 00
King Edw'd, 12-in., 14-in. cut		9 00 to	10 00

Horse Lawn Mowers, "Special."

Discount, 50 per cent., with freight concessions in quantity shipments.

Maxwell & Sons

10½-in. high wheel	0	10 00
9-in.	5 50	6 25
8-in.	4 90	5 50

Discount 50 per cent.

LOCKS.

Canadian, 50 to 50 and 10 per cent.

Russell & Erwin, steel rim	...per doz.	2 25

Cabinet.

Eagle, discount 30 per cent.

Padlocks.

English and Am	per doz.	0 50	6 00

Eagle, discount 20 to 25 per cent.

MACHINE SCREWS.

Iron and Brass.

Flat head, discount 25 per cent.
Round head, discount 20 per cent.

MALLETS.

Tinsmiths'	per doz.	1 25	1 50
Carpenters', hickory,	"	1 25	3 75
Lignum Vitæ	"	3 85	5 00
Caulking, each		0 60	2 00

MATTOCKS.

Canadian	per doz.	5 50	6 00

MEAT CUTTERS.

American, discoun 3⅓ per cent.
German, 15 per cen
Gem ....each 1 15

MILK CAN TRIMMINGS.

Discount 25 per cent.

NAILS.

	Cut.	Wire.
2d	3 40	3 25
3d	3 05	2 90
4 and 5d	2 80	2 65
6 and 7d	2 70	2 55
8 and 9d	2 55	2 40
10 and 12d	2 50	2 35
16 and 20d	2 45	2 30
30, 40, 50 and 60d (base)	2 40	2 25

F.o.b. Toronto.
Steel cut nails 10c. extra.
Miscellaneous wire nails, discount 75 per cent.
Coopers' nails, discount 30 per cent.

NAIL PULLERS.

German and American	85	2 50
No. 1	85	
No 1573	75	

NAIL SETS.

Square, round and octagon, per gross	3 38	
Diamond	1 00	

POULTRY NETTING.

2-in. Mesh, 19 w.g., dis. 60 per cent.
2-in. Mesh 16 w.g. and heavier, 50 p.c.

OAKUM.

U. S. Navy	per 100 lb.	....	6 75
Plumbers	"	....	3 00

OILERS.

McClary's Model galvanized oil can, with pump, 5 gallon, per dozen	10 00
Davidson oilers, discount 40 per cent.	
Zinc and tin, discount 50, 50 and 10 per cent.	
Copper per doz.	1 25 3 50
Brass "	1 50 3 50
Malleable, discount 25 per cent	

GALVANIZED PAILS.

Dufferin pattern pails, discount 47½ per cent
Flaring pattern, discount 47½ per cent.
Galvanized washtubs, discount 47½ per cent.

PIECED WARE.

Discount 40 per cent off list, June, 1899.
10-qt. flaring sap buckets, discount 40 per cent
6, 10 and 14-qt. flaring pails dis. 40 per cent.
Creamer cans, discount 40 per cent.

PICKS.

Per dozen		6 00	9 00

PICTURE NAILS.

Porcelain head	per gross	1 35	1 50
Brass head	"	0 40	1 00

PICTURE WIRE.

Tin and gilt, discount 75 per cent.

PINE TAR.

pint in tins	per gross	7 80
1 " "	"	9 60

PLANES.

Wood bench, Canadian discount 40 per cent.
American discount 50 per cent.
Wood, fancy Canadian or America 37 40 per cent



CATALOG CABINET

Where Do You Keep Your Catalogs?

Can you place your hand ***instantly*** on any catalog, price list or paper you have ? Our Catalog Cabinet enables you to do this. The handsomest, roomiest and cheapest piece of necessary Office Furniture in Canada.

Write for Catalog, then buy a cabinet to put it in.

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Factories, NEWMARKET. 97-105 Wellington St. (near York), TORONTO

PLANE IRONS.

English ..... per doz.	2 00	5 00

PLIERS AND NIPPERS.

Button's genuine, per doz. pairs, discount 37½ to 40 per cent.

Button's imitation....per doz.	5 00	9 00
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PRESSED SPIKES.

Discount 20 per cent.

PULLEYS.

Hothouse .....per doz.	0 55	1 00
Axle ..... "	0 22	0 33
Screw ..... "	0 22	1 00
Awning ..... "	0 35	2 50

PUMPS.

Canadian cistern	1 80	3 60
Canadian pitcher spout	1 40	2 10

PUNCHES.

Saddler's .....per doz.	1 00	1 85
Conductor's ..... "	3 00	15 00
Tinners', solid.....per set	....	0 72
" hollow.....per inch	....	1 00

RAKES.

Wood.....per doz. net	1 20 up.	

RAZORS.

	per doz.	
Elliot's	4 00	18 00
Geo. Butler's & Co.'s.....	4 00	18 00
Boker's	7 50	11
" King Cutter	13 50	18 50
Wade & Butcher's.....	3 60	10 00
Carbo Magnetic.....	....	15 00
Griffon Barber's Favorite	....	10 75
Griffon No. 65.....	....	13 00
Griffon Safety Razors.....	....	13 50
Griffon Stropping Machines..	....	13 50
Lewis Bros. "Klean Kutter"	8 50	10 50
Hindoo	10 50	14 00
Orgsteom's Swedish.....	3 50	10 00
Henckel's	7 50	20 00

Clauss, 50 and 10 per cent.
Clauss Strops, 50 and 10 per cent.

REGISTERS.

Discount 40 per cent.

RIVETS AND BURRS.

New List.

Iron Rivets, black and tinned, 60 and 10 and 10 per cent.
Iron Burrs, discount 60 and 10 and 10 p.c.
Copper Rivets, with usual proportion burrs, 45 per cent.
Copper Burrs only, discount 30 and 10 per cent.
Extras on Tinned or Coppered Rivets, ½-lb. packages 1c. per lb.; ¼-lb. packages 2c. lb.

RIVET SETS.

Canadian, discount 35 to 37½ per cent.

ROPE, ETC.

Sisal.....	0 11
Pure Manilla	0 14½
"British" Manilla.....	0 11
Cotton, 3-16 inch and larger 0 21	0 23
" 5-32 inch 0 25	0 27
" ⅛ inch 0 25	0 28
Russia Deep Sea	0 16
Jute.....	0 09
Lath Yarn, single	0 10
" double	0 10½
Sisal bed cord, 48 feet.....per doz.	0 65
" " 60 feet..... "	0 80
" " 72 feet..... "	0 95

RULES.

Boxwood, discount 70 per cent.
Ivory, discount 20 to 25 per cent.

SAD IRONS.

Mrs. Potts, No. 55, polished....per set	0 75
" No. 50, nickle-plated, "	0 80
Common, plain.....	4 50
" plated	5 50

SAND AND EMERY PAPER.

S. & A. sand, discount, 40 and 5 per cent
Emery, discount 40 per cent.
Garnet (Rurton's), 5 to 10 per cent. advance on list.

SAP SPOUTS.

Bronzed iron with hooks ....per 1,000	7 50
"Eureka" tinned steel, hooks	8 00

SAWS.

Hand, Disston's, discount 12½ per cent
S. & D., discount 40 per cent.

Crosscut, Disston's....per foot	0 35	0 55
S. & D., discount 35 per cent. on Nos. 2 and 3.		
Hack, complete.....each	0 75	2 75
" frame only.....each	0 50	1 25
S. & D. solid tooth circular shingle, concave and band, discount 50 per cent.		
" mill and ice, drag, discount 30 per cent		
" cross-cut, discount 35 per cent.		
" hand saws, butcher, disc't 40 per cent		
" compass, pruning and back, discount 45 per cent.		
" buck, New Century.....$6	25	
" " No. 1 Maple Leaf.....	5	25
" " Happy Medium.....	4	25
" " Watch Spring.....	4	25
" " common frame.....	4	00

SASH WEIGHTS.

Sectional.....per 100 lb.	2 00	2 25
Solid ..... "	1 50	1 75

SASH CORD.

Per lb.....	0 28	0 30

SAW SETS.

	per doz.
Lincoln and Whiting	4 75
Hand Sets, Perfect	4 00
X-Cut Sets, "	7 50

SCALES.

Gurney Standard, 40 per cent.
Gurney Champion, 50 per cent.
Burrow, Stewart & Milne—
Imperial Standard, discount 40 per cent.
Weigh Beams, discount 35 per cent.
Champion Scales, discount 50 per cent.
Fairbanks standard, discount 35 per cent.
" Dominion, discount 55 per cent.
" Richelieu, discount 55 per cent.
Warren's new Standard, discount 40 per cent.
" " Champion, discount 50 per cent.
" Weighbeams, discount 35 per cent.

SCREW DRIVERS.

Sargent's .....per doz.	0 65	1 00

SCREEN DOORS.

Common doors, 2 or 3 panel, walnut stained, 4-in. style.....per doz. 6 50
Common doors, 2 or 3 panel, yellow and green stained, 4-in. style....per doz. 6 75
Common doors, 2 or 3 panel, in natural colors, oil finish .....per doz. 8 75
3-in. style 20c. per dozen less.

SCREWS.

Wood, F. H., bright and steel, discount 87½ per cent.
Wood, R. H., bright, dis. 82½ per cent.
" F. H., brass, dis. 80 per cent.
" R. H., " dis. 75 per cent.
" F. H., bronze, dis. 75 per cent.
" R. H., " dis. 70 per cent.
Drive Screws, dis. 87½ per cent.

Bench, wood .....per doz.	3 25	4 00
" iron ..... "	4 25	5 00

Set, case hardened, dis. 60 per cent.
Square Cap, dis. 50 and 5 per cent.
Hexagon Cap, dis. 45 per cent.

SCYTHES.

Per doz. net.....	6 00	9 00

SCYTHE SNATHS.

Canadian, discount 40 per cent.

SHEARS.

Clauss, nickel, discount 80 per cent.
Clauss, Japan, discount 67½ per cent.
Clauss, tailors, discount 40 per cent.
Seymour's, discount 50 and 10 per cent.

SHOVELS AND SPADES.

Canadian, discount 45 per cent.

SINKS.

Cast iron, 16 x 24.....	....	0 85
" 18 x 30.....	....	1 00
" 18 x 36.....	....	1 40

SNAPS.

Harness, German, discount 25 per cent.

Lock, Andrews'.....	4 50	11 50

SOLDERING IRONS.

1, 1½-lb..... per lb.	....	0 37
2-lb. or over ..... "	....	0 34

SQUARES.

Iron, No. 492 .....per doz.	1 90	2 25
" No. 493 ..... "	2 40	2 55
" No. 494 ..... "	3 25	3 40

Steel, discount 60 and 5 to 65 per cent.
Try and Bevel, discount 50 to 52½ per cent.

STAMPED WARE.

Plain, discount 75 and 12½ per cent. off revised list.
Retinned, discount 75 per cent. off revised list

STAPLES.

Galvanized	....	3 00
Plain	....	2 80

Coopers', discount 45 per cent.
Poultry netting staples, discount 40 per cent.

STOCKS AND DIES.

American discount 25 per cent.

STONE.

Washita .....per lb.	0 28	0 60
Hindostan ..... "	0 06	0 07
" slip ..... "	0 09	0 09
Labrador..... "	....	0 13
" Axe..... "	....	0 15
Turkey ..... "	....	0 50
Arkansas..... "	....	1 50
Water-of-Ayr ..... "	....	0 10
Scythe .....per gross	3 50	5 00
Grind, 40 to 200 lb., per ton.....	....	25 00
" under 40 lb., "	....	28 00
" 200 lb. and over	....	31 00

STOVEPIPES.

5 and 6 inch, per 100 lengths	....	7 00
7 inch..... " "	....	7 50

TACKS, BRADS, ETC.

Carpet tacks, blued	80 and 15
" " tinned.....	80 and 20
" " (in kegs).....	40
Cut tacks, blued, in dozens only	80
" ¼ weights	60
Swedes cut tacks, blued and tinned—	
In bulk.....	80 and 10
In dozens	75
Swedes, upholsterers', bulk....85,	12½ and 12½
" brush, blued and tinned bulk	70
Swedes, gimp, blued, tinned and japanned.....	75 and 12½
Zinc tacks	35
Leather carpet tacks.....	55
Copper tacks.....	50
Copper nails	52½
Trunk nails, black	65 and 5
Trunk nails, tinned.....	65 and 10
Clout nails, blued	65 and 5
Chair nails.....	35
Patent brads.....	40
Fine finishing.....	40
Lining tacks, in papers.....	10
" " in bulk.....	15
" " solid heads, in bulk	75
Saddle nails, in papers.....	10
" " in bulk.....	15
Tufting buttons, 22 line, in dozens only	60
Zinc glaziers' points	5
Double pointed tacks, papers..	90 and 10
" " " bulk....	40
Clinch and duck rivets.....	45

TAPE LINES.

English, ass skin .....per doz.	2 75	5 00
English, Patent Leather	5 50	9 75
Chesterman's .....each	0 90	2 85
" steel.....each	0 80	8 00

TINNERS' SNIPS.

Per doz.....	3 00	15 00

Clauss, discount 35 per cent.

THERMOMETERS.

Tin case and dairy, 75 to 75 and 10 per cent.

TRAPS (steel.)

Game, Newhouse, discount 25 per cent.
Game, H. & N., P. S. & W., 45 and 5 per cent.
Game, steel, 60 and 5 per cent.

TROWELS.

Disston's, discount 10 per cent.

German.....per doz.	4 75	6 00

S. & D., discount 35 per cent.

TWINES.

Bag, Russian .....per lb.	....	0 27
Wrapping, cotton, 3-ply	....	0 24
" 4-ply	....	0 27
Mattress .....per lb.	0 33	0 45
Staging..... "	0 27	0 35

VISES.

Wright's.....	....	0 13½
Brook's.....	....	0 12½
Pipe Vise, Hinge, No. 1.....	....	3 50
" " " No. 2.....	....	5 50
Saw Vise.....	4 50	9 00

Columbia Hardware Co.
Blacksmiths' (discount) 60 per cent.
" parallel (discount) 45 per cent

ENAMELLED WARE.

White, Princess, Turquoise, Blue and White discount 50 per cent.....
Diamond, Famous, Premier, discount 50 and 10 per cent.....
Granite or Pearl, Imperial, Crescent, discount 50, 10 and 10 per cent.
Premier steel ware, 40 per cent.
"Star" decorated steel and decorated whit 25 per cent.

WIRE.

Smooth Steel Wire.

No. 0-9 gauge.....		$2 25
10 "	6c.	extra.
11 "	12c.	"
12 "	20c.	"
13 "	30c.	"
14 "	40c.	"
15 "	55c.	"
16 "	70c.	"

Add 60c. for coppering and $2 for tinning.
Extra net per 100 lb.—Oiled wire 10c. spring wire $1.25, special hay baling wire 30c., best steel wire 75c., bright soft drawn 15c., charcoal (extra quality) $1.25, packed in casks or cases 15c., bagging and papering 10c., 50 and 100-lb. bundles 10c., in 25-lb. bundles 15c., in 5 and 10-lb. bundles 25c., in 1-lb. hanks, 50c., in ½-lb. hanks 75c., in ¼-lb. hanks $1.
Fine Steel Wire, discount 27½ per cent. List of extras: In 100-lb. lots: No. 17, $5—No. 18, $5.50—No. 19, $6—No. 20, $6.65—No. 21, $7—No. 22, $7.30—No. 23, $7,65—No. 24, $8—No. 25, $9—No. 26, $9.50—No. 27, $10—No. 28, $11—No. 29, $12—No. 30, $13—No.31, $14—No. 32, $15—No. 33, $16—No. 34, $17. Extras net—tinned wire, Nos. 17-25, $2—Nos. 26-31, $4—Nos. 32-34, $6. Coppered, 5c.—oiling, 10c.—in 25-lb. bundles, 15c.—in 5 and 10-lb. bundles, 25c.—in 1-lb. hanks, 25c.—in ½-lb. hanks, 38c.—in ¼-lb. hanks, 50c.—packed in casks or cases, 15c.—bagging or papering, 10c.
Brass wire, discount 60 per cent. off the list.
Copper wire, discount 60 per cent. net cash 30 days, f.o.b factory.
Galvanized wire, per 100 lb.—Nos. 4 and 5, $3.70 to $3.70—Nos. 6, 7, 8, $3.15 to $3.15—No. 9, $2.55 — No. 10, $3.20 to $3.20—No. 11, $3.25 to $3 25 — No. 12, $2.65—No. 13, $2.75—No. 14. $3.75 to $3.75—No 15, $4.30—No. 16. $4.30. Base sizes, Nos. 6 to 9, $2.37½ f.o.b. Cleveland. In carlots 12½c. less.
Clothes Line Wire, regular 7 strand, No. 17. $4.65; No. 18. $2.90; No. 19, $2.60. Hollow 6 strand, No. 17, $4.30; No. 18, $2.70; No. 19, $2.35; No. 20, $2.30, f.o.b. Hamilton, Toronto, Montreal.

WIRE FENCING.

Galvanized barb.....	2 50	2 75
Galvanized, plain twist	2 50	2 75

Galvanized barb, f.o.b. Cleveland, $2 30 for small lots and $2 20 for carlots.

COILED SPRING WIRE.

High Carbon, No. 9.....	$2 70
" No. 11	3 35
" No. 12	2 85

WIRE CLOTH.

Painted Screen, per 100 sq. ft., net..	1 50

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Eclipse, per doz	48 00
Dowswell "	36 00
New Century, per doz	72 00
Connor Improved.....	33 00
Daisy.....	48 00

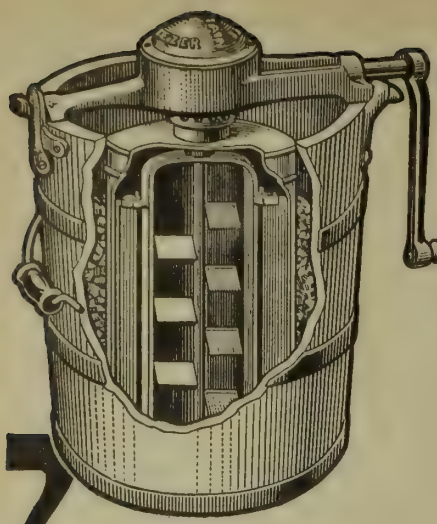
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Leader .....per doz.	30 00	33 00
Royal Canadian..... "	....	24 00
Royal American..... "	....	24 00
Sampson..... "	....	24 00
Lightning ..... "	....	27 00

Terms, 4 months, or 3 per cent. 30 days.

WROUGHT IRON WASHERS.

Canadian make discount 40 per cent.



THE WHITE MOUNTAIN FREEZER

The

Ice Cream Maker Par Excellence

Three Motions inside the Can. Two Separate Dashers. Produces the Greatest Quantity of Quality, Quickly. The Freezer that is Most Advertised, Best Known and Best Liked. Endorsed by and Sold by Leading Jobbers Everywhere. Catalogue for the Asking.

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INDEX TO ADVERTISERS

A

Acme Can Works .....inside back cover
Acme Lathe & Products Co..... 41
American Shearer Mfg. Co..... 21
American Steel and Wire Co 59
Anglo-Canadian Supply Co..... 50
Armstrong Bros 47
Atlas Mfg. Co..... 56

B

Barnett, G. & H., Co....outside back cover
Bartlett, Wm., & Son 54
Bayliss, Jones & Bayliss..... 1
Bennett Mfg. Co..... 64
Birkett, Thos., & Son Co. 1
Boss Machine Co..... 8
Bosson Bros..... 56
Bradstreet's..... 64

C

Canada Brass Rolling Mills 25
Canada Cycle and Motor Co..... 43
Canada Foundry Co..... 41
Canada Iron Furnace Co.. 35
Canada Paint Co..... 48
Canada Paper Co 51
Canadian Fairbanks Co..... 4
Canadian Heating & Ventilating Co... 26
Canadian Rubber Co 12
Canadian Sewer Pipe Co..... 56
Canadian Steel and Wire Co..... 26
Clauss Shear Co..... 41
Concrete Block Machine Co..... 56
Connor, J. H., & Sons..... 64
Consumers' Cordage Co..... 11
Covert Mfg. Co 6
Cutts, C. M. & Co..... 51

D

Davidson, Thos., Mfg. Co..... 2
Dennis Wire and Iron Co..... 47
Deseronto Iron Co..... 35
Dods, P. D., & Co..... 47
Dorken Bros. ....outside front cover, 6, 49
Dowswell Mfg. Co..... 49

E

Enterprise Mfg. Co..... 45
Erie Specialty Co..... 64

F

Falkiner, H. F..... 50
Ferrosteel Co..... 26
Frothingham & Workman..... 9

G

Gibb, Alexander..... 20, 47
Gies, Philip..... 21
Gilbertson, W., & Co..... 47
Glauber Brass Co..... 21
Greening, B., Wire Co..... 7
Grose, Walter..... 37
Grove Chemical Co..... 47
Gurney Foundry Co 25, 51
Gurney, Tilden Co..... 53
Gutta Percha and Rubber Mfg. Co....
outside back cover

H

Ham & Nott..... 40
Hamilton Cotton Co..... 6
Hamilton Rifle Co..... 30
Hanover Portland Cement Co..... 54
Harrington & Richardson Arms Co 41
Harris, W. G 41
Heinisch, R., Sons Co..... 10
Henderson, J. A..... 51
Henderson & Potts Co 46
Hobbs Mfg. Co..... 55
Howland, H. S., Sons & Co..... 17
Hyde, F. & Co 35

I

Imperial Varnish and Color Co..... 44
Ironside, Son & Co 64

J

Jackson, C. F., & Co..... 35
Jamieson, R. C., & Co 45
Jardine, A. B., & Co. 21
Jenking, A. C..... 54
Jenkins Bros..... 29
Johnson's, Iver, Arms and Cycle Works 16
Johnston, Rd., Clapham & Morris. 6

K

Kemp Mfg. Co 12
Kerr Engine Co..... 20

L

Leslie, A. C., & Co..... 35
Lewis Bros. & Co. 3
Lewis Rice, & Son..... inside front cover
Lockerby & McComb..... 53
London Fence Machine Co..... 45
London Rolling Mill Co..inside back cover
Loughead, J. S., & Son 6
Lufkin Rule Co.....inside back cover
Luxfer Prism Co 55
Lysaght, John. .....outside front cover

M

Mackenzie Bros..... 39
Maple Leaf Harvest Tool Co 5
Mast, J. M., Mfg. Co..... 10
Maxwell, D., & Sons... 6
Mechanics' Supply Co..... 27
Metal Shingle and Siding Co..... 52
Metallic Roofing Co..... 37
Morton, B. K., & Co..... 35
Morrison, James, Brass Mfg. Co..... 18
Morrow, John, Machine Screw Co..... 21
Munderloh & Co..... 28

Mc

McArthur, Alex., & Co 58
McCaskill, Dougall & Co..... 47
McClary Mfg. Co 30
McDougall, R., Co..... 35
McGregor-Banwell Fence Co 50

N

Naturo Co..... 23
Newman, W., & Sons 54
North Bros. Mfg. Co..... 1
North West Machinery & Iron Co.... 20
Nova Scotia Steel and Coal Co..... 35

O

Oakey, John, & Sons..... 50
Office Specialty Mfg. Co..... 61
Oneida Community 9
Ontario Lantern and Lamp Co..... 39
Ontario Tack Co..... 14
Ontario Wind Engine and Pump Co .. 51
O-So-Ezy Mfg. Co..... 54
Owen Sound Wire Fence Co..... 7

P

Page-Hersey Iron and Tube Co 21
Page Wire Fence Co..... 28
Paterson Mfg. Co..... 60
Pedlar People..... 53, 57
Penberthy Injector Co..... 23
Phillips, Chas. D 54

R

Ramsay, A., & Son Co 10, 23
Ross, J. A..... 10
Royal Paper Mills Co....inside back cover
Russell & Erwin Mfg. Co..... 9

S

Sadler & Haworth .....outside back cover
Samuel, M. & L., Benjamin, & Co..... 2
Sanderson-Harold Co..... 25
Saunders, Franklin & Co 30
Scott, Greenwood & Co..... 47
Seymour, Henry T., Shear Co..... 10
Sharratt & Newth..... 10
Shaw, A., & Son..... 10
Sherwin-Williams Co..... 15
Silica Barytic Stone Co..... 56
Skedden Brush Co..... 45
Smart Jas., Mfg. Co..... 7
Smith & Hemenway Co..... 21
Solarine Metal Polish..... 50
Standard Ideal Sanitary Co..... 18
Standard Paint and Varnish Works... 47
Staniforth & Co..... 8
Stephens, G. F., & Co..... 39
Summers, John, & Sons..... 6

T

Tarbox Bros 64
Taylor-Forbes Co. outside front cover, 52
Thompson, B. & S. H., Co.....
outside back cover
Thorne, R. E..... 20
Turnbull & Henderson..... 20

U

United States Register Co 39
Utica Drop Forge and Tool Co 21

W

Wallace Barnes Co 21
Walter, E. F., & Co 4
Welsh Tinplate & Metal Stamping Co.. 4
Western Wire Nail Co 10
White Mountain Freezer Co..... 62
Wilcox Mfg. Co 55
Wilkinson Sword Co 26
Winnipeg Paint and Glass Co 39
Wright, E. T., & Co 51

CLASSIFIED LIST OF ADVERTISEMENTS.

Aluminum Castings.
Canadian Aluminum Works Montreal.

Anvils
Taylor-Forbes Co., Guelph, Ont.

Art Glass.
Hobbs Mfg. Co., London, Ont.

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Cutts, C. M., & Co., Toronto Junction.

Automobiles.
Canada Cycle and Motor Co., Toronto.

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Bartlett, Wm., & Son, Toronto.

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Birkett, Thos., & Co., Ottawa.
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Gutta Percha and Rubber Mfg. Co., Toronto.
Sadler & Haworth Montreal & Toronto.

Bicycles and Accessories.
Canada Cycle and Motor Co., Toronto Junction.
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Warminton, J. N., Montreal.

Brass Goods.
Canada Brass Rolling Mills, Toronto.
Glauber Brass Mfg. Co., Cleveland, Ohio.
Lewis, Rice, & Son., Toronto.
Morrison, Jas., Brass Mfg. Co., Toronto.
Nicklin, J., & Co., Birmingham, Eng.
Penberthy Injector Co., Windsor, Ont.
Taylor-Forbes Co., Guelph, Ont.

Brushes.
Ramsay, A., & Son Co., Montreal.
Skedden Brush Co., Hamilton, Ont.

Business Brokers.
The Locators, Winnipeg.

Cans.
Acme Can Works. Montreal.

Carpenters' and Builders' Tools and Supplies.
Besson Bros., Brussles, Belgium.
Covert Mfg. Co., West Troy, N.Y.
Frothingham & Workman Co., Montreal.
Gurney, Tilden Co., Hamilton.
Howland, H. S., Sons & Co., Toronto.
Hyde, F., & Co., Montreal.
Lewis Bros. & Co., Montreal.
Lewis, Rice, & Son, Toronto.
Lockerby & McComb, Montreal.
Lufkin Rule Co., Saginaw, Mich.
Metallic Roofing Co., Toronto.
Newman & Sons, Birmingham.
North Bros. Mfg. Co., Philadelphia, Pa.
Pedlar People, Oshawa, Ont.
Phillips, Chas. D., Newport, Eng.
Smith & Hemenway Co., New York.
Silica Barytic Stone Co., Ingersoll, Ont.
Stanley Rule & Level Co., New Britain.
Stephens, G. F., Winnipeg.
Taylor-Forbes Co., Guelph, Ont.
Waggoner Ladder Co., London, Ont.
Warnock, James, Galt, Ont.

Carriage and Waggon Accessories.
Covert Mfg. Co., West Troy, N.Y.
Lougheed, J. S., & Son, Sarnia, Ont.

Cattle and Trace Chains.
Greening, B., Wire Co., Hamilton.
Oneida Community Co., Niagara Falls.

Chains—Heavy.
Frothingham & Workman, Montreal.

Churns.
Dowswell Mfg. Co., Hamilton.
Maxwell, David, & Sons, St. Marys.

Clippers—All Kinds.
American Shearer Mfg. Co., Nashua, N.H.
Burman & Sons, Birmingham, Eng.
Dorken Bros. & Co., Montreal.

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Waggoner Ladder Co., London, Ont.

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Concrete Block Machine Co., Toronto.

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Consumers' Cordage Co., Montreal.
Hamilton Cotton Co., Hamilton.

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Erie Specialty Co., Erie, Pa.

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Turnbull & Henderson, Vancouver, B.C.

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Butler, Geo., & Co., Sheffield, Eng.
Clauss Shear Co., Toronto.
Dorken Bros. & Co., Montreal.
Heinisch's, R., Sons Co., Newark, N.J.
Howland H. S., & Sons, Toronto.
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Silberstein, A. L., New York.
Smith & Hemenway Co., New York.
Walter, E. F., & Co., Montreal.
Wiebusch & Hilger, New York.
Wilkinson Sword Co., London, Eng.

Educational.
Metropolitan Business College, Ottawa
St. Margaret's College, Toronto.

Electric Fixtures.
Canadian Aluminum Works, Montreal.
Mechanics' Supply Co., Quebec.
Morrison James, Mfg. Co., Toronto.
Munderloh & Co., Montreal.

Fence Machines.
London Fence Machine Co., London.

Files and Rasps.
Barnett Co., G. & H., Philadelphia, Pa.
Disston, Henry & Sons, Philadelphia, Pa.
Grose, Walter, Montreal.

Financial Institutions.
Bradstreet Co.
British America Assurance Co., Toronto.
Canadian Bank of Commerce, Toronto.
Confederation Life Ass., Toronto.
Metropolitan Bank, Toronto.
Western Assurance Co., Toronto.

Firearms and Ammunition.
Hamilton Rifle Co., Plymouth, Mich.
Harrington & Richardson Arms Co., Worcester, Mass.
Johnson's, Iver, Arms and Cycle Works, Fitchburg, Mass.
Walter, E. F., & Co., Montreal.

Food Choppers.
Enterprise Mfg. Co., Philadelphia, Pa.
Lamplough, F. W., & Co., Montreal.
Russell & Erwin Mfg. Co., New Britain, Conn.
Smith & Hemenway Co., New York.

Galvanizing.
Ontario Wind Engine and Pump Co., Toronto.

Garden Tools.
Staniforth, Thos., & Co.—J. S. Parkes, agent, Montreal.

Gas Lamps and Sundries.
Auer Light Co., Montreal.

Glaziers' Diamonds.
Sharratt & Newth, London, Eng.
Shaw, A., & Son, London, Eng.

Glue.
Grove Chemical Co., Lancashire, Eng.

Hardware Specialties.
Erie Specialty Co., Erie, Pa.
Gurney, Tilden Co., Hamilton, Ont.
Mast, J. M., Mfg. Co., Lititz, Pa.

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Maple Leaf Harvest Tool Co., Tillsonburg, Ont.
Staniforth, Thos., & Co., Sheffield, Eng.

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Welsh Tinplate and Metal Stamping Co., Llanelly, Wales.

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Canadian Rubber Co. of Montreal.

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Canada Horse Nail Co., Montreal.
Montreal Rolling Mills Co., Montreal.
Peck Rolling Mills Co., Montreal.

Hot Water Boilers.
Gies, Philip, Berlin, Ont.
Gurney Foundry Co., Toronto.

Ice Cream Freezers.
Dana & Co., Cincinnati, Ohio.
Davidson, Thos., Mfg. Co., Montreal.
North Bros. Mfg. Co., Philadelphia, Pa.
White Mountain Freezer Co., Nashua.

Ice Cutting Tools.
Erie Specialty Co., Erie, Pa.
North Bros. Mfg. Co., Philadelphia, Pa.

Injectors—Automatic.
Morrison, Jas., Brass Mfg. Co., Toronto.
Penberthy Injector Co., Windsor, Ont.

Iron Pipe.
Montreal Rolling Mills Co., Montreal
Page-Hersey Iron and Tube Co., Guelph.

Iron Pumps.
McDougall, R., Co., Galt, Ont.

Ladders—Extension.
Waggoner Ladder Co., London, Ont.

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Kemp Mfg. Co., Toronto.
Ontario Lantern Co., Hamilton, Ont.
Wright, E. T., & Co., Hamilton.

Lawn Mowers.
Birkett, Thos., & Son Co., Ottawa.
Maxwell, David, & Sons, St. Marys Ont.
Smart, Jas., Mfg. Co., Brockville, Ont.
Taylor-Forbes Co., Guelph, Ont.

Legal Cards.
Atwater, Duclos & Chauvin, Montreal.
Beatty, Blackstock, Faskon, Riddell, Maybee, Toronto.
Irwin & Jones, Toronto.
McLean, Wm. A., Guelph, Ont.
Newburn & Ambrose, Hamilton, Ont.
Tupper, Phippen & Tupper, Winnipeg.
Wilson, W. G., Napanee, Ont.

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Gurney & Tilden, Hamilton.

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Armstrong Bros. Tool Co., Chicago, Ill.
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Canadian Fairbanks Co., Montreal and Toronto.
Jardine, A. B., & Co., Hespeler, Ont.
Kerr Engine Co., Walkerville, Ont.
Montreal Rolling Mills Co., Montreal.
Morrow Machine Screw Co., Ingersoll, Ont.
Penberthy Injector Co., Windsor.

Manufacturers' Agents.
Gibb, Alexander, Montreal.
Jenking, A. C., & Co., Montreal.
North West Machinery and Iron Co., Winnipeg, Man.
Thorne, R. E., Montreal and Toronto.
Turnbull & Henderson, Vancouver, B.C.

Metals.
Booth Copper Co., Toronto.
Canada Iron Furnace Co., Midland, Ont.
Canada Metal Co., Toronto.
Deseronto Iron Co., Deseronto, Ont.
Gibb, Alexander, Montreal.
Gilbertson, W., Pontardawe, Wales.
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Henderson, J. A., Montreal.
Ironside, Son & Co., London, Eng.
Jackson, C. F., & Co., Vancouver, B.C.
Johnston, Rd., Clapham & Morris, Manchester, Eng.
Kemp Mfg. Co., Toronto.
Leslie, A. C., & Co., Montreal.
Lewis, Samuel, & Co., Dudley, Eng.
London Rolling Mills Co., London, Ont.
Lysaght, John, Bristol, Eng.
Montreal Rolling Mills Co., Montreal.
Morton, B. K., & Co., Sheffield, Eng.
Nova Scotia Steel and Coal Co., New Glasgow, N.S.
Peck Rolling Mills Co., Montreal.
Samuel, Benjamin & Co., Toronto.
Saunders, Franklin & Co., Montreal.
Thompson, B. & S. H. & Co., Montreal.

Metal Lath.
Metallic Roofing Co., Toronto.
Pedlar People, Oshawa, Ont.

Metal Polish, Emery Cloth, etc.
Anglo-Canadian Supply Co., Toronto.
Solarine Company, Chicago.
Oakey, John, & Sons, London, Eng.

Milk Cans and Trimmings.
Davidson, Thos., Mfg. Co., Montreal.
Kemp Mfg. Co., Toronto.
McClary Mfg. Co., London, Ont.
Wright, E. T., & Co., Hamilton, Ont.

Mops.
Tarbox Bros., Toronto.

Nails and Spikes.
Montreal Rolling Mills Co., Montreal.
Ontario Tack Co., Hamilton, Ont.
Peck Rolling Mills Co., Montreal.

Office Furniture.
Office Specialty Mfg. Co., Toronto.

Paints, Oils and Glass.
Berry Bros., Detroit and Walkerville.
Canada Paint Co., Montreal.
Consolidated Plate Glass Co., Toronto.
Dods, P. D., & Co., Montreal.
Henderson & Potts Co., Montreal.
Hobbs Mfg. Co., London, Ont.
Imperial Varnish and Color Co., Toronto.
Jamieson, R. C., & Co., Montreal.
Lewis, Rice & Son, Toronto.
Lucas, John, & Co., Philadelphia, Pa.
Luxfer Prism Co., Toronto.
McArthur, Corneille & Co., Montreal.
McCaskill, Dougall & Co., Montreal.
Montreal Rolling Mills Co., Montreal.
O-So-Ezy Mfg. Co., Montreal.
Queen City Oil Co., Toronto.
Ramsay & Son, Montreal.
Sherwin-Williams Co., Montreal.
Standard Paint and Varnish Works, Windsor, Ont.
St. George, H. E., London, Ont.
Thorne, R. E., Montreal.
White Lead Association of Canada, Montreal.
Winnipeg Paint and Glass Co., Winnipeg

Painters Tools and Supplies.
United Factories, Toronto.
Waggoner Ladder Co., London, Ont.

Perforated Sheet Metals.
Greening, B., Wire Co., Hamilton.

Plumbers' Tools and Supplies.
Canada Brass Rolling Mill, Toronto.
Canadian Fairbanks Co., Montreal.
Glauber Brass Co., Cleveland, Ohio.
Gies, Philip, Berlin, Ont.
Gurney Foundry Co., Toronto.
Jardine, A. B., & Co, Hespeler, Ont.
Jenkins Bros., Boston, Mass.
Mechanics' Supply Co., Quebec.
Morrison, Jas., Brass Mfg. Co., Toronto.
Naturo Co., Salem, N.J.
Page-Hersey Iron & Tube Co., Guelph.
Standard Ideal Sanitary Co., Port Hope,
Utica Drop Forge & Tool Co., New York.

Portland Cement.
Canadian Portland Cement Co., Toronto
Hanover Portland Cement Co., Hanover, Ont.
Hyde, F., & Co., Montreal.
Thompson, B. & S. H. & Co., Montreal.

Pottery.
Foster Pottery Co., Hamilton, Ont.

Poultry Netting.
Greening, B., Wire Co., Hamilton, Ont.
Page Wire Fence Co., Walkerville, Ont.

Refrigerators.
Davidson, Thos., Mfg. Co., Montreal.
Ham & Nott Co., Brantford, Ont.
Sanderson-Harold Co., Paris, Ont.

Registers.
Ferrosteel Co., Cleveland, Ohio.
United States Register Co., Battle Creek, Mich.

Roofing Supplies.
Jenking, A. C., & Co., Montreal.
McArthur, Alex., & Co., Montreal.
Metal Shingle & Siding Co., Preston, Ont.
Metallic Roofing Co., Toronto.
Paterson Mfg. Co., Toronto & Montreal.
Pedlar People, Oshawa.
Taylor-Forbes Co., Guelph, Ont.

Saws.
Atkins, E. C., & Co., Indianapolis, Ind.
Disston, Henry, & Sons, Philadelphia, Pa.
Shurly & Dietrich, Galt, Ont.

Scales.
Canadian Fairbanks Co., Montreal.
New Warren Scale Co., Montreal.

Screen Doors and Windows.
Sanderson-Harold Co., Paris, Ont.

Screws, Nuts, Bolts.
Acme Lathe Products Co., Manchester
Bayliss, Jones & Bayliss, Wolverhampton, Eng.
Canada Foundry Co., Toronto.
Montreal Rolling Mills Co., Montreal.
Morrow, John, Machine Screw Co., Ingersoll, Ont.

Sewer Pipes.
Canadian Sewer Pipe Co., Hamilton
Hyde, F., & Co., Montreal.

Shelf Boxes.
Bennett Mfg. Co., Pickering, Ont.

Shelf Brackets.
Atlas Mfg. Co., New Haven, Conn

Skates.
Canada Cycle & Motor Co., Toronto.

Stable Fixtures.
Greening, B., Wire Co., Hamilton, Ont.
Oneida Community Co., Niagara Falls, Ont.

Steel Rails.
Algoma Steel Co—Drummond, McCall & Co., Agents, Montreal.
Jackson, C. F., & Co., Vancouver, B.C.
Morton, B. K., & Co., Sheffield, Eng.
Nova Scotia Steel & Coal Co., New Glasgow, N.S.

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Mackenzie Bros., Winnipeg.

Store Lighting.
Auer Light Co., Montreal.

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Davidson, Thos., Mfg. Co., Montreal.
Gies, P., Berlin, Ont.
Gurney Foundry Co., Toronto.
Kemp Mnfg. Co., Toronto.
McClary Mfg. Co., London.
Smart, Jas., Mfg. Co., Brockville, Ont.
Wright, E. T., & Co., Hamilton.

Tacks.
Ontario Tack Co., Hamilton.
Peck Rolling Mills Co., Montreal.

Traps.
Mast, J. M., Mfg. Co., Lititz, Pa.

Typewriters and Supplies.
United Typewriter Co., Montreal.

Wall Paper.
Stauntons Limited, Toronto.

Washing Machines, etc.
Boss Washing Machine Co., Cincinnati, O.
Connor, J. H., & Son, Ottawa.
Dowswell Mfg. Co., Hamilton, Ont.
Taylor Forbes Co., Guelph, Ont.

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Howland, H. S., Sons & Co., Toronto.
Kennedy Hardware Co., Toronto.
Lewis Bros. & Co., Montreal.
Lewis, Rice, & Son, Toronto.

Window and Sidewalk Prisms.
Hobbs Mfg. Co., London, Ont.
Luxfer Prism Co., Toronto.

Wire Springs.
Henderson, J. A., Montreal.
Wallace-Barnes Co., Bristol, Conn.

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American Steel and Wire Co., New York, Montreal, Chicago.
Bayliss, Jones & Bayliss, Wolverhampton, Eng.
Canadian Steel & Wire Co., Hamilton.
Dennis Wire and Iron Co., London, Ont.
Dominion Wire Mnfg. Co., Montreal.
Greening, B., Wire Co., Hamilton.
Ironside, Son & Co., London, Eng.
McGregor-Banwell Fence Co., Walkerville, Ont.
Montreal Rolling Mills Co., Montreal.
Oneida Community, Niagara Falls.
Owen Sound Wire Fence Co., Owen Sound
Page Wire Fence Co., Walkerville, Ont.
Walter, E. F. & Co., Montreal.
Western Wire & Nail Co., London, Ont.
Wilcox Mfg. Co., London, Ont.

Woodenware.
Bennet Mfg. Co., Pickering, Ont.
Taylor-Forbes Co., Guelph, Ont.
United Factories, Toronto.
Waggoner Ladder Co., London, Ont.

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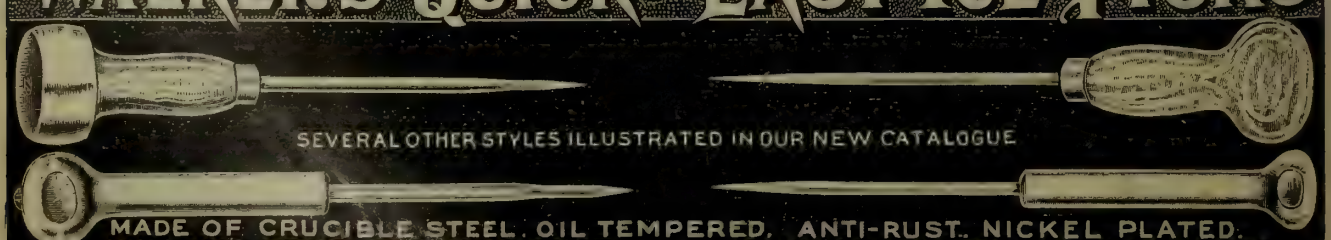
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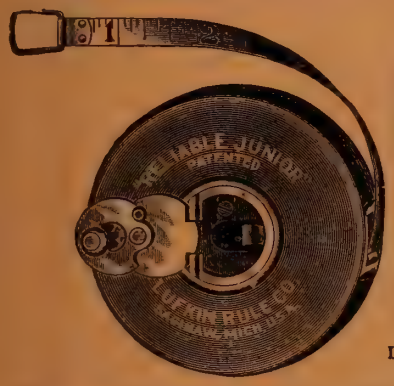
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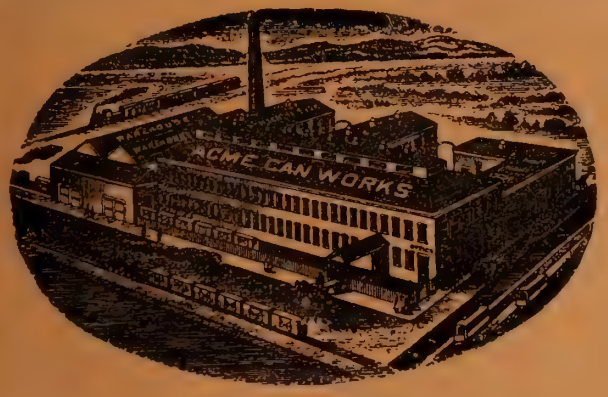
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VOL. XVII. MONTREAL AND TORONTO, MAY 6, 1905 NO. 18

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GUELPH, CANADA

Classified List of Advertisements on Page 63.

SEASONABLE SELLING GOODS

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OF ALL KINDS
INCLUDING
Tennis Supplies
Baseball Requisites
Quoits
Lawn Bowls, etc.

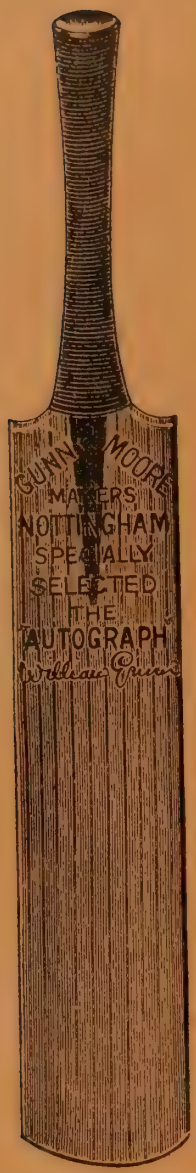


Golf Clubs
and
Balls

all RETURNED
to owner
all MAY 6 1905
Book 34
Page 50

Outdoor Sporting Goods
OF ALL KINDS
INCLUDING
Cricket Bats
Lacrosse Sticks
Golf Needs
Fencing Foils
Etc.

SEASONABLE SELLING GOODS



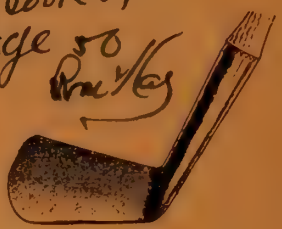
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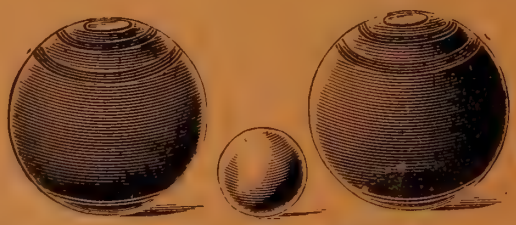
GOLF CLUBS



GOLF BALLS



GOLF CLUBS



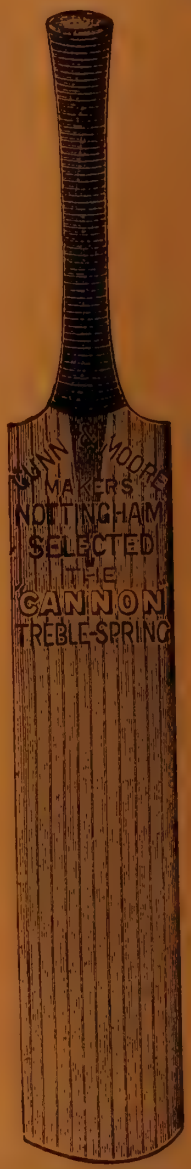
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Guns
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RICE LEWIS & SON
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ALWAYS READY FOR USE



Full Hollow Ground $2.00 Each
Double Concave for extra hard beards, $2 50
Send for free book, "HINTS TO SHAVERS."

The CARBO MAGNETIC RAZOR

No Honing! No Grinding!

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Booklet coming—if you will ask for a copy, with trade discount.

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FIRM OF
A. L. SILBERSTEIN, "Griffon" Cutlery
MAKERS OF

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To the

Hardware Merchants

and

General Store Keepers

we solicit a call or inquiry.

THOS. BIRKETT & SON CO., LIMITED

WHOLESALE HARDWARE MERCHANTS

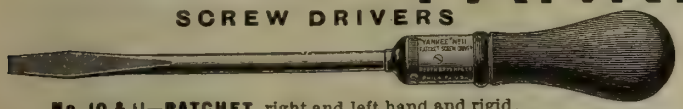
OTTAWA, ONT.

Other Tools are very Good Tools, but

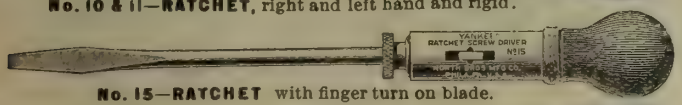
"YANKEE TOOLS" ARE BETTER

The NEWEST, CLEVEREST and QUICKEST SELLING TOOLS of the KIND.

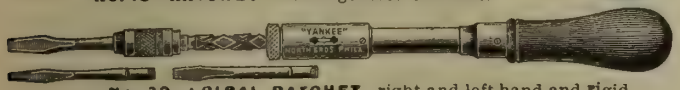
SCREW DRIVERS



No. 10 & 11—RATCHET, right and left hand and rigid.



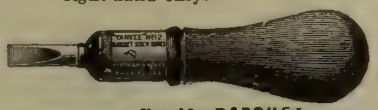
No. 15—RATCHET with finger turn on blade.



No. 30—SPIRAL RATCHET—right and left hand and rigid.
No. 31— " " (heavy pattern)
No. 20— " " right hand only.



Chuck and 8 Drill Points, for spiral ratchet screw driver.



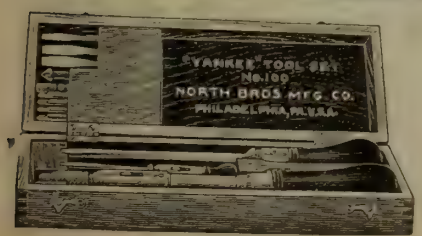
No. 12—RATCHET, with stub blade.



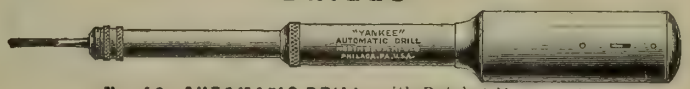
No 60—POCKET SCREW DRIVER.



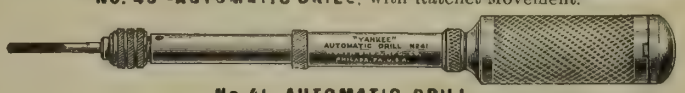
Countersink, for spiral ratchet screw driver.



DRILLS



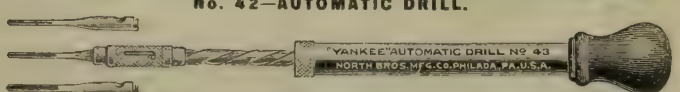
No. 40—AUTOMATIC DRILL, with Ratchet Movement.



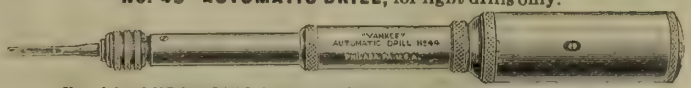
No. 41—AUTOMATIC DRILL.



No. 42—AUTOMATIC DRILL.



No. 43—AUTOMATIC DRILL, for light drills only.



No. 44—AUTOMATIC DRILL, with adjustable tension on spring.



No 50—RECIPROCATING DRILL, for wood or metals.

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SEND FOR OUR NEW "YANKEE" TOOL BOOK

NORTH BROS. MFG. CO.

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The "Standard" Blue Flame Wickless
COAL OIL AND GASOLINE STOVES

Absolutely Safe and Easy to Operate
Lights Instantly and Cooks Quickly

Simply turn on the oil and apply the match

"Standard" Safety Gasoline Stoves are constructed according to the safety requirements of the National Board of Fire Underwriters, and are on their list of "Permitted Stoves."

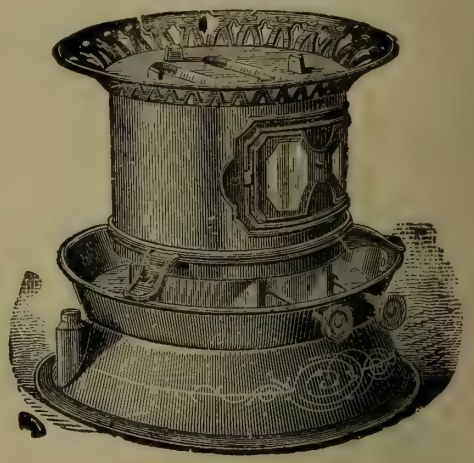
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A Good Serviceable Stove and a Powerful Cooker, at a very low price.

We have also in stock the "Summer Girl," "Eagle" and German Oil Stoves, Extension Tops, Wicks, etc. Write for prices.



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WE MAKE THE PRICE THAT GETS THE ORDERS.

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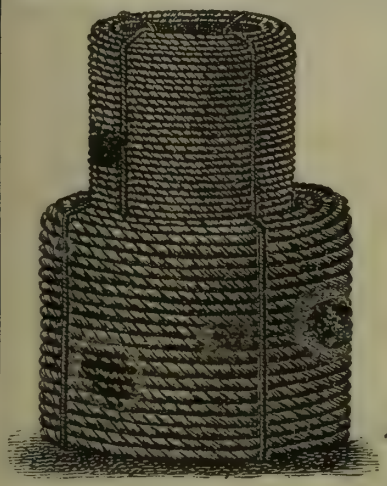
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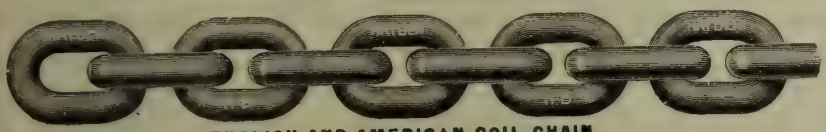
LONDON PATTERN STEEL TACKLE BLOCKS, ALL SIZES IN SINGLE, DOUBLE AND TRIPLE.



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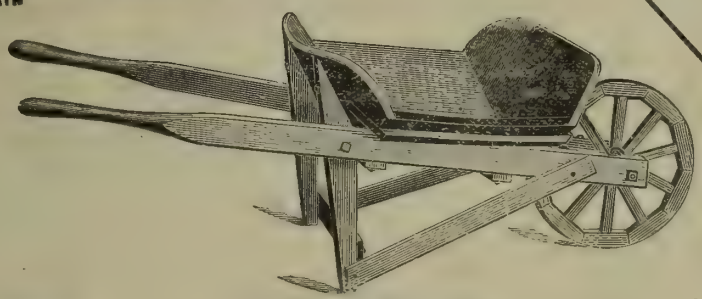


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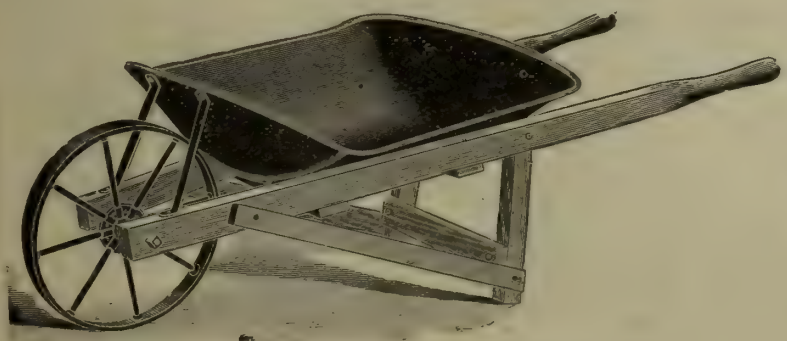
MONTREAL.

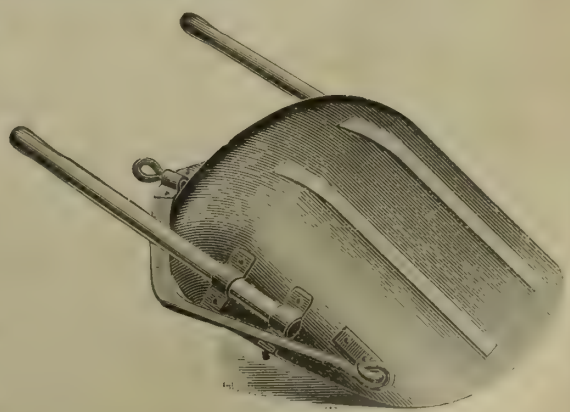
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No. 1 holds 7 cubic feet.
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Furnished with or without runners.

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POCKET KNIVES
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REGISTERED TRUE TRADE MARK

POCKET KNIVES
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E. F. WALTER & CO., 166 and 168 McGILL STREET MONTREAL



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PRESSED, STAMPED, and MACHINE-MADE

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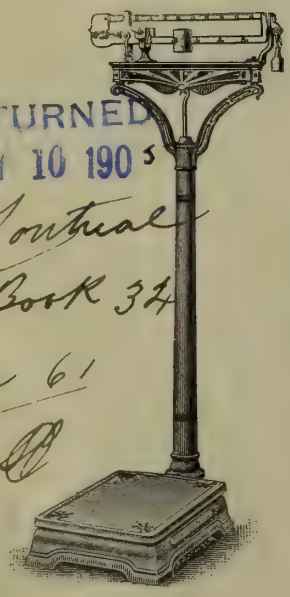
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We Have Scales to Suit All Purposes.



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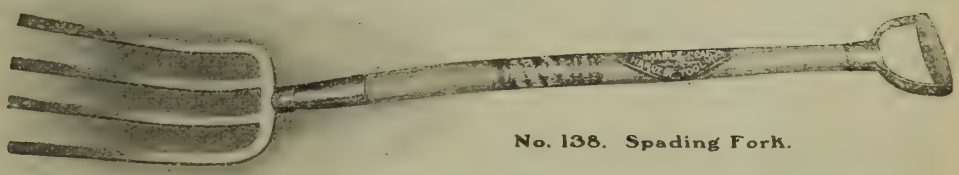
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For Beauty, Finish and Quality, the "Maple Leaf" Harvest Tools are unexcelled.



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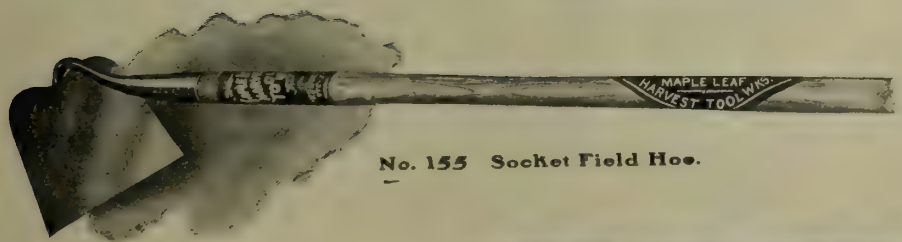
No. 138. Spading Fork.



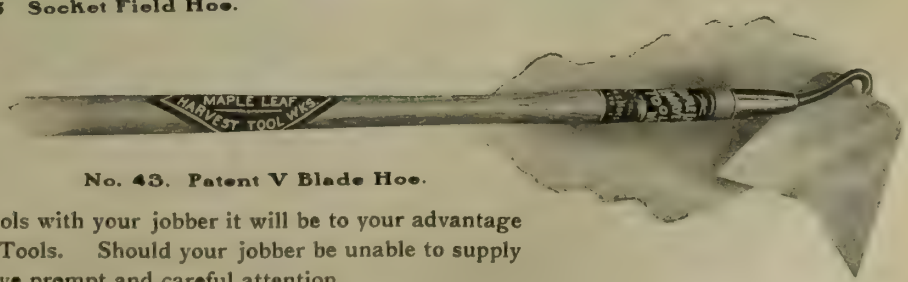
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When placing your order for harvest tools with your jobber it will be to your advantage to **specify** for the **"Maple Leaf"** Harvest Tools. Should your jobber be unable to supply them, send your order to us and it will receive prompt and careful attention.

The Maple Leaf Harvest Tool Co., Limited, Tillsonburg, Ont.

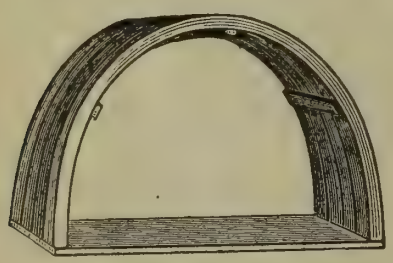


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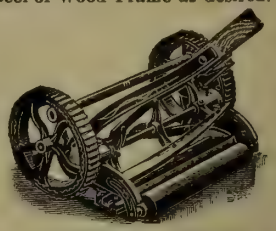
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Sarnia, Ontario
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HEAVY WAGON, SLEIGH, BUGGY, AND CUTTER STOCK
We make a specialty of heavy stock and can fill orders promptly. Made from the best of oak and hickory as we carry a large stock of lumber and can make any sizes that may be required. We make it a point to fill orders promptly.
If you are in need of anything in our line we will be pleased to hear from you and we will give it our prompt attention.
J. S. LOUGHEAD & SON, Sarnia, Ont.


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DAVID MAXWELL & SONS
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"Maxwell Favorite Churn." PATENTED FEATURES: Improved Steel Stand, Roller Bearings, and Foot and Hand Lever Drive, and Detachable Driving Link. Improved for season of 1904. Steel or Wood Frame as desired.
Lawn Mowers. High and Low Wheels, from 12 in. to 20 in. widths. Cold Rolled Steel Shafting, Crucible Steel Knives and Cutting Plate.
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SEND DIRECT TO US.

MAXWELL MOWER
8-in. Low Wheel.


Wheelbarrows. In Four Different Sizes.

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who will quote delivered any point as may be required.



OAK-CABINET
Given away FREE of charge with an order for six half-dozen Pocket Knives as illustrated above.
May be had through all leading wholesale hardware firms.

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Factory and Mill Windows
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and for all public buildings

The B. GREENING WIRE CO.
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HAMILTON, Ont. MONTREAL, Que.

Dillon Hinge-Stay —Fence—



Don't let YOUR farmer customer go to the OTHER Hardware for his fencing because you have none. If so, he is likely to get his Stove, Harvest Tools and other goods there, too.

Put in a small attractive stock of our 1905 DILLON fence ing, keep it where it can be seen and it will attract farm custom. Good margin in it for you, too.

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FOR
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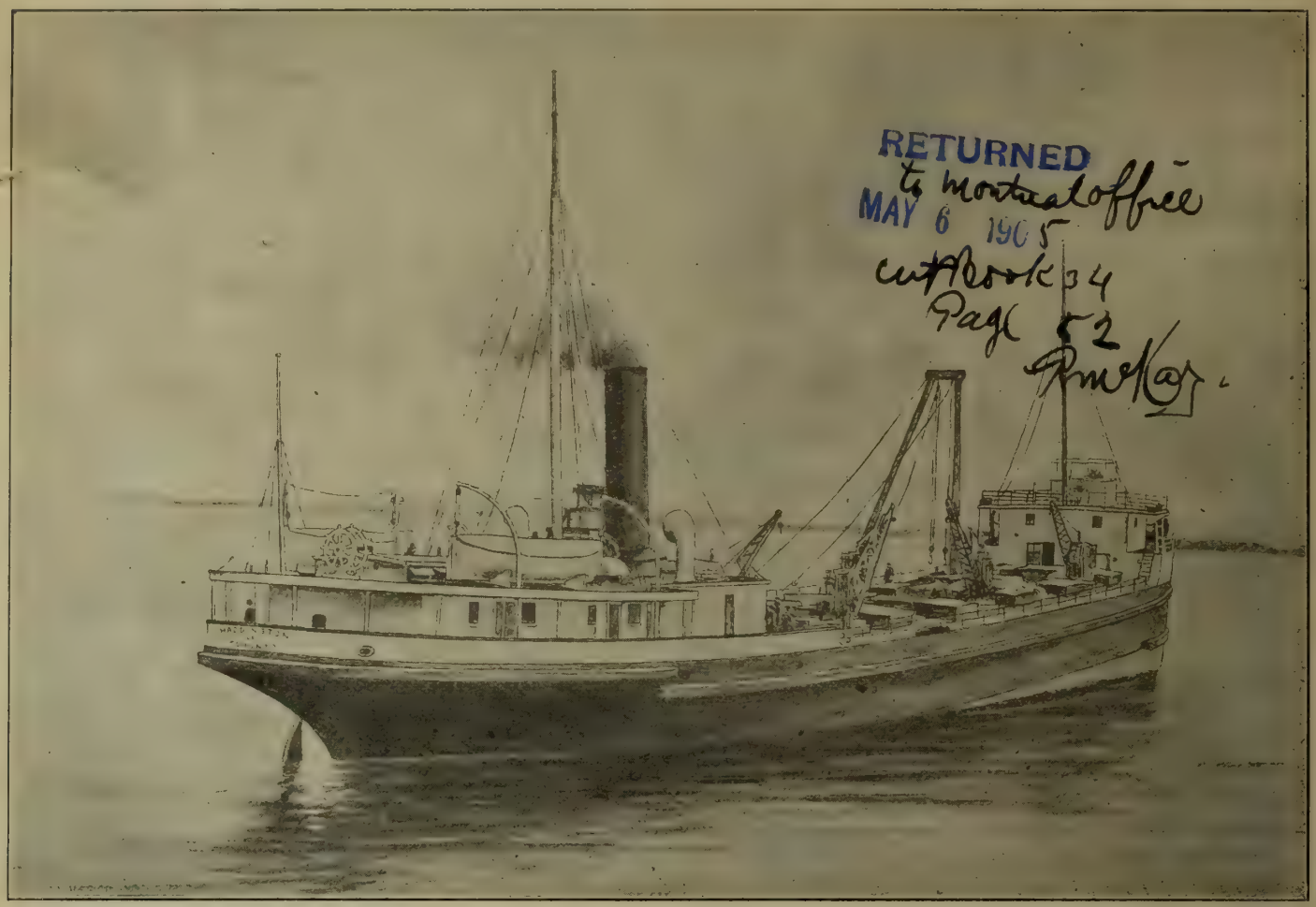
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STEEL WIRE NAILS

WIRE HOOPS

Allow us to send you samples of these Hoops.
You will find them stronger and cheaper than wooden ones.

MADE IN CANADA



S. S. HADDINGTON

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In this shipment were all kinds of nails, from the smallest finishing brad to seven-inch spikes.

The entire shipment was made on account of orders received from Lewis Bros. & Co., of Montreal, Que., and will be distributed to points in Manitoba, North-West Territories, and as far west as British Columbia.

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Toronto Office, TEMPLE BUILDING ***Correspondence Solicited***

We will mail you on request a sample card showing the kind of nails we make, which are superior as regards points and heads to any Canadian make.

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To owner
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F. & W. are all very well when the doctor prescribes. Let us be the doctor for your business and prescribe Miller Padlock Card assortments. They are silent salesmen that work for you while busy at other matters.

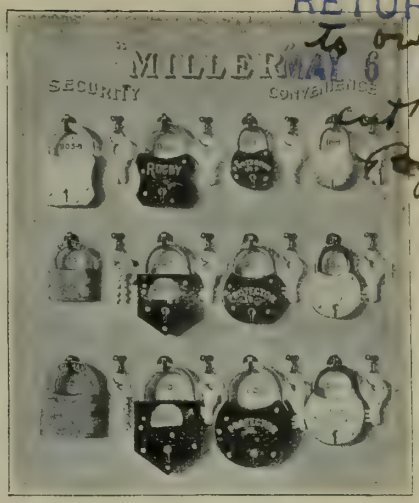
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Keys can be unhooked and used to remove locks.

Each lock covers its own picture.

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Card, 13 x 16 inches.
Two cards in a box; weight of a box, 7½ pounds.

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For 96 Years Sellers of Hardware.



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Illustration shows the

NIAGARA WIRE LINK

OPEN RING TYPE

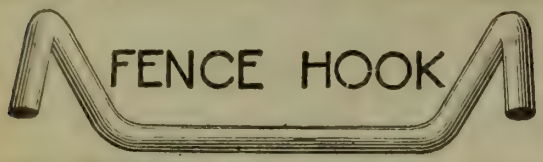
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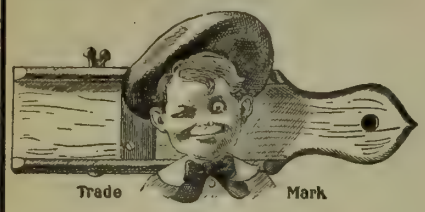
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WIRE NAILS, COILED SPRING, BARB and PLAIN FENCE WIRE, OILED and ANNEALED, CLOTHES LINE WIRE, STAPLES, etc.

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A handy kitchen utensil for scraping chocolate, slicing small fruits and vegetables. Sells well at all seasons because always useful. Made of hardwood. Blade of finely tempered steel.

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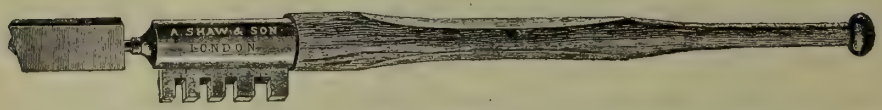
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43 and 44 Percival Street, London, England
Contractors to H. M. Government and the Principal English Sheet and Plate Glass Works.
ALSO Established 1815
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Ahead of all others in **quality** and **workmanship**. If **sparks** of **fine quality**, **set by experts**, are what you require, buy Diamonds of **A. Shaw & Son's** make.

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388 ST. PAUL ST., MONTREAL

CELEBRATED HEINISCH SHEARS

Tailors' Shears,
Trimmers' Shears,
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HENRY T. SEYMOUR SHEAR CO. NEW YORK.
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HAVE BEEN THE
Standard for over Half a Century.
"QUALITY UNQUESTIONED."
Each pair of our shears bears the above trade mark.

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Do you know there is a big demand for the

IDEAL SQUARE STEAM COOKER?

There are also big profits for you.

Ask your jobber, or write

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Agent Wanted

A first class agent to represent a Sheffield house of high standing, in ***silver*** and ***plated hollow-ware, spoons*** and ***forks, plated*** and ***silver cutlery, steel cutlery, etc.***

To one who has a good connection, liberal terms will be given. None but applications of the highest class will be considered. Communications will be treated in strict confidence. Address, stating age, all particulars, salary required, to

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BLUE RIBBON, 650 ft. to the lb.
REDCAP, - 600 ft. to the lb.
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STANDARD, 500 ft. to the lb.
GOLDEN CROWN, 500 ft. to the lb.

Still the Favorites of both FARMERS and DEALERS.

If **SHEAF BRAND** is preferred to any of the above, we are prepared to supply it, as we are the Proprietors of this Trade Mark.

Nothing but Select Fibre Used.
Skilled Canadian Labor.

Our Twine is not only evenly spun, but is WELL BALLED. This is very important, prevents tangling in Twine Box Write for prices.

CONSUMERS CORDAGE CO., Limited

Mills—MONTREAL and HALIFAX. MONTREAL.

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To Montreal
Ast Book 34
Page 83

The Old Engineer

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PACKING is one of our banner lines, but we sell

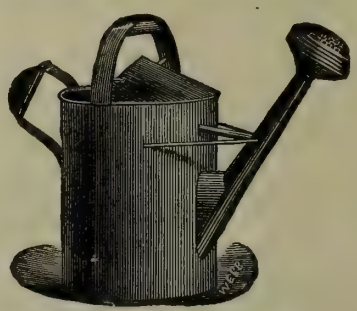
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Each cooler packed separately in a strong box to ensure against damage in transit.

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THE KEMP MFG. AND METAL CO., LIMITED,
McDermot Ave. East, Winnipeg, Man.

THE KEMP MFG. CO. OF MONTREAL,
58 McGill St., Montreal, Que.

COMMERCIAL TRAVELERS' TAX

AROUND of the Winnipeg wholesale establishments shows that there is no little surprise and indignation among Winnipeg business men at the action of the British Columbia Legislature in imposing a tax on commercial travelers from other provinces. It is argued by all that as wholesale business is almost entirely carried on through the travelers, this rax is really as much in restraint of inter-provincial trade as a protective duty on the goods would be. Business men are not lawyers, and hence are not competent to express opinions as to the validity of the Act, but the layman's view is that this tax is as contrary to the spirit of the B. N. A. Act as a direct protective duty would be.

The arguments of the Victoria Colonist and other British Columbia apologists for the measure, are not taken seriously. It will be remembered that the Colonist argues for the tax on the ground that B. C. business men have to pay taxes, and should not be subjected to competition with firms that do not pay taxes. Winnipeg business men point to their own heavy taxes in reply to this.

They also claim that it is absurd to suppose the benefits of inter-provincial trade are wholly one-sided. There are many lines of goods which B. C. houses can sell more cheaply in the Territories than can Manitoba or eastern houses, the reason being that they are imported goods from England, brought to British Columbia by water routes, while the Manitoba and eastern houses are forced to pay heavy railway rates.

The opinions quoted below represent the feeling of business men in Winnipeg and Toronto.

JOHN HORNE.

John Horne, of Campbell Bros & Wilson, president of the Northwest Commercial Travelers' Association, was seen by a representative of this paper.

"The tax is an absurdity," said he. "It is a sort of treatment which could scarcely be excused towards foreigners, and it is very strange treatment of Canadians."

"What are the association doing about it?" was asked.

"We were represented in the delegation which went to Ottawa recently to ask for disallowance. The executive here are drafting a resolution, which will be sent to Ottawa."

F. J. C. COX.

Ald. Cox, secretary of the Northwest Commercial Travelers' Association, was emphatic in his disapproval.

"It is a protective tax, pure and simple, and designed to shut out trade from other provinces. I can't understand how any province can have the power to impose such a tax. If the various provinces of the Confederation can't trade together freely it is time to dissolve partnership. But the action of the B. C. Legislature is not endorsed by the people of that province. The Vancouver Board of Trade condemned it, and I have just received the following resolution from the Nelson Board of Trade:

" 'That in the opinion of the wholesalers' section of the Nelson Board of Trade the resolution of the British Columbia Assessment Commission to the Government of the province, respecting the imposition of a tax on commercial travelers doing business in British Columbia, is conidered most objectionable in principle.'

"This was passed on April 13. I am including it in a resolution which the association here are sending to Ottawa."

MR. M'QUILLIAN.

Mr. McQuillan, president of the Commercial Travelers' Association of Canada, said the stand taken by the association was that the new commercial travelers' tax was distinctly a violation of the spirit of Confederation, if not of the letter. The B.N.A. Act postulated absolute free trade and unrestricted commercial intercourse between the provinces. "Suppose the new western provinces were to levy a similar tax on outside commercial men, which they might very well do, what would be the result? The east is very properly up in arms against the new legislation. It is largely due to eastern business men that the West has reached its present stage of development, and now the western trade would cut them off entirely from trade intercourse. Why don't they put a tax on all agents seeking to do business in British Columbia instead of singling out the commercial travelers?"

In answer to the question as to whether anything was likely to come of the deputation which recently waited upon the Dominion Government, Mr. McQuillan remarked that it was questionable whether the authorities at Ottawa would take any steps towards disallowing the tax, at least at the present time. "It is a debatable point," said he, "as to just where the Dominion Government should come in and dictate to the provinces. It is, moreover, a question according to the Minister, whether a tax of $100 can be considered a hindrance to trade and commerce, whereas there might be no doubt if the tax amounted to $700 or $800. The question of the tax being for revenue purposes only has also to be taken into consideration."

G. F. STEPHENS.

G. F. Stephens, of G. F. Stephens & Co., thought it unfortunate that such a law should have been passed: "I dare say the B. C. Legislature has a right to pass this law. It is a local matter, and they can do as they please. But it is most unfortunate, as it is likely to lead to hard feelings in the other provinces and, perhaps, to retaliation. It is a step backwards towards the conditions of the Middle Ages. If every province passes a similar law there will be an unfortunate state of affairs. An English commercial traveler would have to spend $100 for a license in every province he visited. I don't think the British Columbia people will endorse the measure when they give it full consideration."

J. H. ASHDOWN.

J. H. Ashdown, president of the J. H. Ashdown Hardware Co., thought the measure ill-advised: "I don't know that there is very much to say," he remarked. "The measure is a mistaken one, and it is not in the interests of the people of British Columbia, as it will have a tendency to shut out commercial travelers and restrict their buying market. It is quite possible that their goods will cost them more. Moreover, the travelers spend considerable money in British Columbia, and that will be lost."

ANOTHER WHOLESALER.

Another prominent wholesale man, who did not want his name used, was a firm believer in provincial rights:

"The tax is a mistake," said he, "but I would not favor disallowance. It is purely a provincial affair, and it would be a piece of impertinence on the part of the other provinces to dictate to British Columbia in the matter.

"The tax is a mistake and it is not in the interests of the people of British Columbia. If we leave them alone they will find that out for themselves some day. It will hurt them more than it hurts us.

"No, I wouldn't favor such a tax in Manitoba, but it would be our own business if we imposed it."

GEO. D. WOOD.

Geo. D. Wood, of Geo. D. Wood & Co., was not perturbed: "We have a branch in Nelson," he siad, "and the tax will not apply to us. We are a British Columbia house, you see.

"The other fellow? Oh, we have troubles enough of our own. We haven't thought anything about the tax.

"Yes, the tax may not be right in principle. I am not prepared to say as to that."

E. B. LOUCKS

E. B. Loucks, sales manager of the Marshall-Wells Co., thought the tax unjust:

"I don't think business men should submit to it. The legality of the law seems to be in doubt, and I should like to see a test case fought to a finish in the courts."

TORONTO MEN SPEAK.

Mr. Kennelly, of the McClary Manufacturing Co., and Mr. Carrick, of the Gurney Foundry Co., said that their houses would not be affected by the tax, as branch houses were established in British Columbia. Taxes such as the B.C. imposition had been tried in other provinces but discarded as an impediment to industry. Eighteen or twenty years ago the cities of Quebec, St. John, etc., imposed fees of $40 on travelers selling goods to retailers, but the short-sighted policy was soon abolished.

A BRITISH COLUMBIA TRAVELER.

Mr. H. C. Martin, representative of H. S. Howland, Sons & Co. in British Columbia, who is in Toronto gathering together a fine lot of samples to show to the trade in the West, was seen regarding the new tax and freely expressed himself on the subject.

"The tax was originally agitated for by the wholesalers on the coast, thinking they would freeze out outside competition and monopolize the trade for themselves. The B.C. Government is always in sore need of funds and took up the proposition, declining to withdraw when the B.C. jobbers found that the game was not going to work as well as they expected. The plan met with opposition from the retail merchants, and the commercial men and the jobbers were forced to hedge.

"The tax will not affect any of the large eastern houses, and will keep out very few travelers. The adding of $100 to the annual expense account of a traveler is a small thing, as his ordinary railway and living expenses total up to $3,500 or $4,000 per year. The additional percentage is so small that no increase in prices will result.

"The very men who instigated the new tax send travelers east as far as they can, in some cases to near the Manitoba border, teas from Asia and ware from Europe being shipped East from Vancouver to compete with the eastern goods. Heavy metals are even backed up as far as Fernie.

"Collections are very good in British Columbia this year, much better than in Manitoba and the Territories, where the merchants have been overloaded by the jobbers, and the farmers are carrying heavy loads of land. This is the big fishing year on the Fraser, and the outlook on the whole is very bright."

RETURNED
JUL 15 1905
To Ozone
Cut Book 37
Page. 89

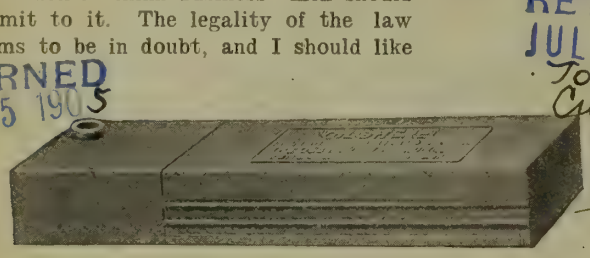


Fig. 1.—Oilshere, Combination Oiler and Oil Stone.

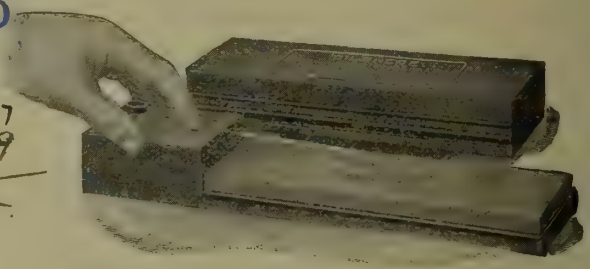


Fig. 2.—Oiler in Use.

TO HELP THE RETAILER.

H. Boker & Co., manufacturers of cutlery, have hit on a novel plan to help the retailer sell knives at a good profit by giving away free a cabinet with an order for six half-dozens of pocket knives, that is, half a dozen each of the six knives illustrated.

The cabinet is of oak, it has a loop over the illustrations, so as to hold the knife exactly in place. Errors in placing a knife wrongly are not possible, as the illustrations are exact representations of the knives sold. The quality of the knives is the best made, and each blade is honed sharp enough to split hair. All leading wholesale firms are handling these cabinets.

A NEW COMBINATION OILER AND OILSTONE.

A new patented combination oiler and oilstone called "Oilshere" has been introduced on the market by the Osborn Manufacturing Co., of Cleveland, Ohio. This invention consists of a sheet steel box having in one end an oil reservoir which is so arranged that by pressing the thumb upon the spring brass top the oil is sprayed out upon the stone which is contained in the box or case, of which the oiler forms a part. The construction of this case protects the stone from damage and dirt, and saves frequent annoyance and delay by oilers being lost, loaned and otherwise separated from the stone. The box is provided with a slide cover which will not drop off if a tool chest turns. They are offered in an attractive gun-metal finish, being made in two sizes for stones six by two by one and eight by two by one inches in dimensions.

OPENING A BRANCH IN WINNIPEG

P. D. Dods & Co., of Montreal, manufacturers of varnishes and paints, and dealers in oils, glass and colors, are opening a new branch house at No. 328 Smith street, Winnipeg. The new offices and warehouse will be under the management of Mr. Ernest Guertin. A

WIRE NAILS
TACKS
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Prompt Shipment
The ONTARIO TACK CO.
Limited.
HAMILTON, ONT.

complete stock of all the goods handled by this company will be displayed in the new warehouse. A staff of employees equal to the outlay of work caused by these extensive operations have already been employed, and the amount of business already transacted in this branch speaks well for the honest efforts which are being put forth by Mr. Guertin.

Trade Conditions in Birmingham

By H. B.

April 20, 1905.

ALTHOUGH compared with the January quarterly iron masters meeting, prices ruled a shade weaker, the general tone of the largely-attended "Spring Quarterly," held in Birmingham last week, was decidedly firm and hopeful. Constant increase of stocks in warrant stores is keeping prices at a normal figure, marked bars ruling at £8, but with any sign of a speedy termination of the war there is little doubt the iron market would become very active. The high railway rates obtaining between Birmingham and the ports, in quiet times particularly, have a depressing tendency upon the midland export trade in what may be regarded as raw materials. Hence sheets for export have been in poor demand, orders going to firms on the seaboard, who can quote with profit less freightage charges as from the midlands.

To this is due the fact that two or three sheet works, including a galvanizing plant, were recently offered for sale at the Queen's Hotel, only to be withdrawn for want of purchasers.

Messrs. Baldwins, Limited, have recently secured the brands for tin sheet making of the Manor House Works, Wolverhampton, founded by the late Mr. Stephen Thompson. These works will in future be carried on by Mr. Sankey, the present proprietor, for the manufacture of black sheets.

While the military gun trade generally continues in a very depressed condition, it is pleasant to record the production by the well-known firm of gunmakers, Messrs. C. G. Bonehill & Sons, of Belmont Row, of a newly-patented air rifle of which very great things are expected. The value of the air gun as a means of training at short distances for long-range rifle shooting has been recognized by military experts. The new Birmingham air rifle, which is to be known as "the Britannia," will be placed on the market in a few weeks' time.

Its efficiency and value for military training has attracted the attention of your ever-vigilant commercial agent here, Mr. P. B. Ball. One day this week Mr. Ball, in company with the American consul, visited Messrs. Bonehill's works for the purpose of personally testing the new air rifle. Mr. Ball is well known in the Dominion as a crack shot, and at his first essay with the new air gun he scored a bull, and just missed the same spot with a first shot at 50 yards. Talking with Mr. Ball today he expressed himself enthusiastically in regard to the new gun. He proposes to introduce the air rifle to the notice of his Government, believing that for the training of school boys this air rifle, as a weapon of precision, is as accurate as the miniature rifle and much cheaper. The new air rifle is of all British manufacture, is patented in all countries, and is already creating great interest at home where the recent establishment of almost innumerable air gun clubs affords a large scope for inventions of the kind.



RUBBER COMPANY EXTENDING PLANT.

A statement has been given out by Mr. D. Lorne McGibbon, general manager of the Canadian Rubber Co., of Montreal, to the effect that a sum amounting to $250,000 has been allocated by the directors of that company for the purpose of improving the present plant and erecting new factories for the manufacture of many lines of goods, which at present are being handled in a restricted way. It is anticipated that the new additions to this plant will increase the present producing capacity by about fifty per cent.

—

Screen door time is on the way. Impress on your trade the necessity of heading the flies off—getting the doors on early.

CATALOGUES AND BOOKLETS.

For the convenience of its readers HARDWARE AND METAL has opened its columns for the review of catalogues booklets or other such publications issued by manufacturers or wholesale dealers selling to the hardware, plumbing, machinery or metal trades. Retailers desiring such publications may also have inserted a note to that effect. It is requested that when any of the trade write for any booklet mentioned in these columns that they credit HARDWARE AND METAL as the source of their information.

Sanitary Specialties.

WATEROUS Aquameter Water Closets are well illustrated in a neat booklet mailed us by the Waterous Company, Chicago, Ill. The Aquameter is an automatic self-closing valve for flushing water closets and urinals, and, as its name implies, is a water measure. It can be attached direct to a service pipe from the city main or storage tank, and works equally well under high or low pressure. The booklet describes a full line of perfection sanitary fixtures, and is well worth the trouble of sending for. Mention Hardware and Metal when writing.

A Natural Gas Furnace.

The Stanton Heater Co., Martin's Ferry, Ohio, have issued catalogue No. 7 illustrating and describing their seamless warm-air heaters, which have won a splendid reputation for themselves. The matter contained in the catalogue should be in the hands of every stove and furnace man, and copies will be supplied to any applicant who mentions Hardware and Metal. A pamphlet sent out by the same company describes the Stanton Natural Gas Furnace, a type of heater which should be in demand in Western Ontario and the Northwest Territories, where natural gas is now used for many purposes and available for heating and lighting. Readers in these districts should ask for a copy of the pamphlet when sending for the catalogue.

Fiftieth Anniversary.

A beautifully-decorated card has been received from the wholesale hardware firm of H. H. Fuller and Co., of Halifax, N.S., announcing the fiftieth anniversary of the firm.

Fixture Catalogue.

A catalogue dealing with gas and electrical fixtures has been issued by Wilfred Lacroix & Co., of No. 29 Bleury street, Montreal. Every different shade, shape and style of fixtures handled by these people is fully illustrated in this catalogue. Beneath each illustration information is given regarding the size, weight, composition and finish, and price. Any member of the retail trade not already a possessor of one of these catalogues would do well to send to the above address. Readers mentioning the name of this publication when writing shall receive one free.

Claimed and Proven Superiority of

Iver Johnson Revolvers



We claim—They are safer than other revolvers.
Proof—"Hammer the Hammer."

We claim—Reliability.
Proof—The satisfaction given to more than a million users.

We claim—They are the best advertised.
Proof—Watch the magazines.

We claim—They are the best revolvers made
Proof—They have the largest sale of any revolver in the world.

And thus we might go on and substantiate every claim ever made for IVER JOHNSON Revolvers; but suffice it to say—

The trade Prefer them
and
The public Demand them.

Send for finest fire arms catalogue ever published.



New York Office:
No. 99 Chambers St.

IVER JOHNSON'S ARMS & CYCLE WORKS,
FITCHBURG, MASS.

Skedden's Brushes.

An elaborate catalogue of 72 pages of convenient size is available for the trade who handle brushes, and any merchant who writes the Skedden Brush Co., Hamilton, Ontario, can secure a copy by mentioning Hardware and Metal in their letter. Skedden brushes are known for their high quality, and have the additional advantage of being "made in Canada." Nearly 200 lines are described in the catalogue. Send for a copy.

"Empire Queen" Catalogue.

A handy booklet containing numerous illustrations and testimonials of the Empire Queen Range, manufactured by the Canadian Heating and Ventilating Co., Limited, Owen Sound, has been sent to Hardware and Metal, and will be sent to any reader who mentions this paper. The various talking points of the "Empire Queen" are elaborated upon, a price list is given, and in many ways the pamphlet is a handy one for the retailer to have.

Doubt Destroyers.

A novel advertisement sent us by the American Appraisal Co., Milwaukee, is a folder of fine cover paper, to the inside of which are fastened by staples minature fac similes of about 100 letters from large business houses expressing their appreciation of the manner this company had appraised the value of the plants, etc., of these clients in order to save time and trouble in case of fire. A copy of the "Doubt Destroyer" will be sent any who mention this paper.

Lunkenheimer's Specialties.

The Lunkenheimer Co., Cincinnati, Ohio, manufacturers of engineers' specialties, announce the publication of a 50,000 edition of a magnificent new catalogue of 550 pages, fully illustrating everything manufactured by this well-known company, and describing the new lines they have recently put on the market, such as their locomotive blow-off valve, Lunkenheimer's multiple feed mechanical lubricators for gasoline automobiles, the H-W crosshead pin oiler and their small unions, from 1-8 to 1-2 inch, to braze on brass pipe. Readers who send for a catalogue should mention this paper.

H. S. HOWLAND, SONS & CO. LIMITED

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Only Wholesale

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"Daisy" Churn.



Butter Mould

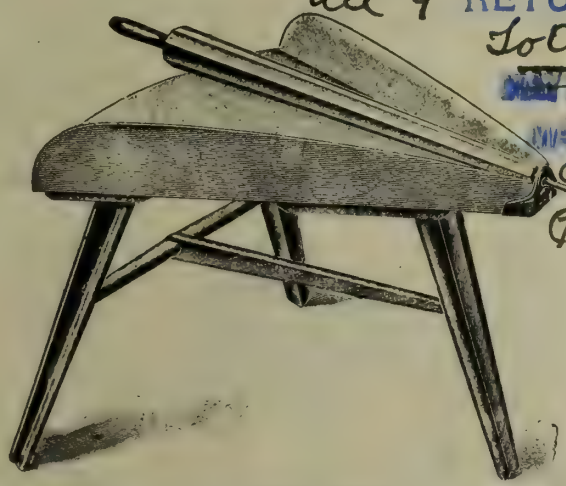


"Favorite" Churn.

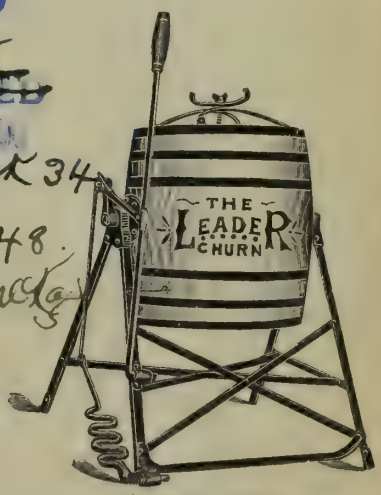
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Cut Book 34
Page 48.



Dash Churn
Plain Top and Crib Top



Butter Workers
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Butter Ladles.

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MANUFACTURERS OF

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"MADE IN CANADA."

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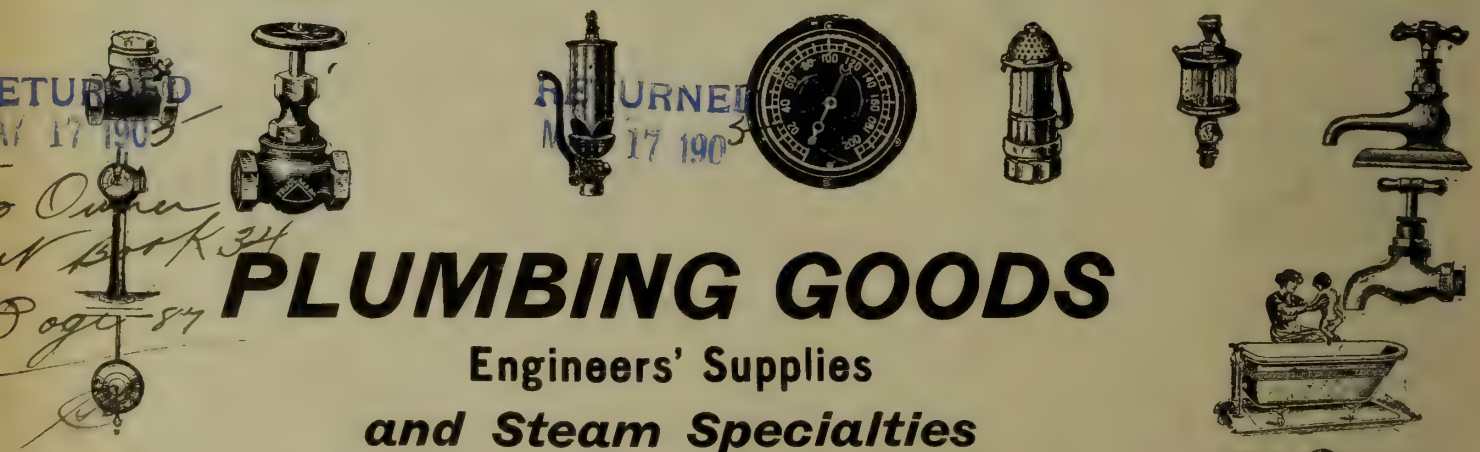
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Engineers' Supplies *and Steam Specialties*



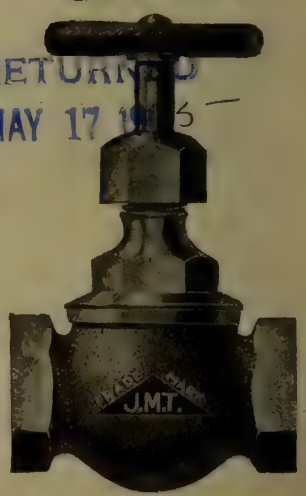
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By M. J. Quinn
Mechanical Superintendent for the Ontario Government.
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Trap Vents, or Break Syphons.

BECAUSE of the many and diverse opinions entertained as to the necessity or otherwise of using trap vents or break syphons under certain circumstances. and also because of the somewhat misty ideas held by some members of the plumbing fraternity regarding the exact physical conditions which cause the removal of the water from an ordinary trap, when no "break"—as it is popularly called—is provided, the following may prove of interest to many.

The opinion is entertained by perhaps the majority of plumbers that syphonage. such as is illustrated in Fig. 1—with a piece of rubber tube with the highest end submerged in a bowl of water is due to the weight of water in the tube drawing that in the bowl after it, and in that way emptying the latter vessel, but such in reality is not the case.

Before giving the true explanation of the phenomena it may be interesting to

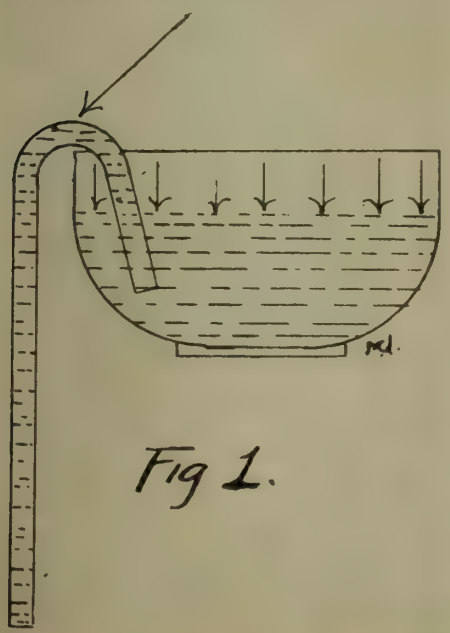


Fig 1.

explain for the benefit of those who have never tried the experiment that if a tube of rubber or other material is filled with water and both ends kept closed until one end is submerged in water or other liquid, as in Fig. 1, and the other end placed below the level of the same, that the liquid will continue to flow through the tube until it has sunk to a point where the air is allowed to enter through the highest end, when it will at once cease running.

The explanation is that the falling relieves the atmospheric pressure on the lower end of the tube, and that pressure, which at this altitude is about fifteen pounds to the square inch pressing upon the surface of the water, as indicated by the arrows, causes it to

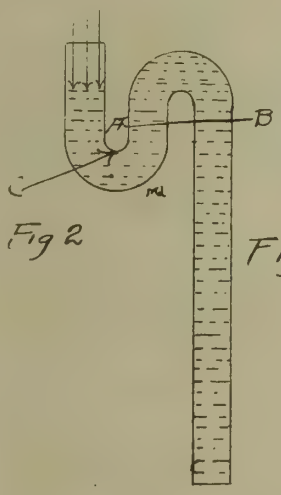


Fig 2

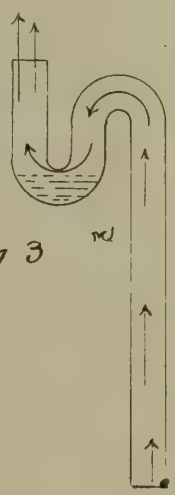


Fig 3

rise in the tube where there is less resistance, and, falling over into the long leg of the tube by its own weight, prevents the full atmospheric pressure from being exerted upon the lower end. and this will continue until the air is allowed to enter through the end of the tube in the bowl when the water falls below that point, or by the making of an opening, sav at the point indicated by the dart. In either case the moment the atmospheric pressure is allowed to enter the upper part of the syphon the water will fall back to both ends and assume its normal level.

Now assuming that that portion of the trap in Fig. 2 marked "A-B" takes the place of the syphon or rubber tube

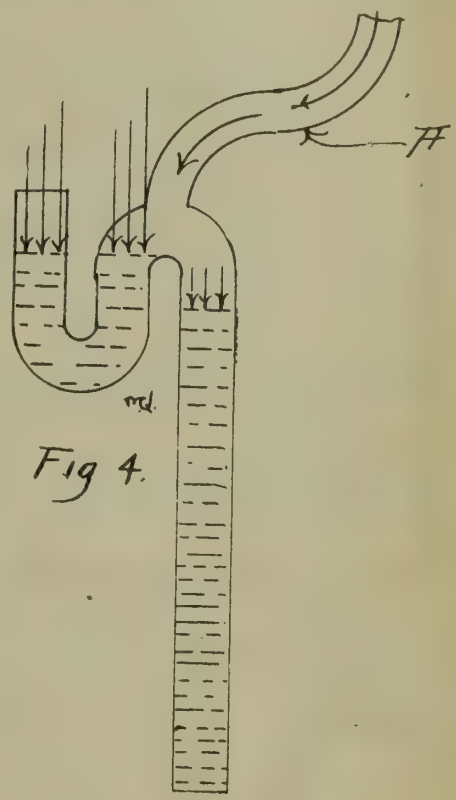


Fig 4.

in Fig. 1, and that the upper end or inlet is connected to a sink or basin, the water from which being discharged, entirely fills the trap and waste pipe connected thereto, the result will be that the atmosphere, by pressing upon the upper surface with greater force than is possible at the lower end, by reason of the falling water in the latter case, will force the water down to a point below "C" when the air passes in and follows the receding water down the waste pipe, leaving the condition illustrated in Fig. 3, where the seal of the trap being broken, the sewer gas is passing up into the building between the top of the wall of the trap and the small amount of water left in the bottom of it.

To obviate the danger of having a defect of this kind, a "break-syphon" marked "A" in Fig. 4 is connected with the crown of the trap.

This "break-syphon" is merely a pipe which is carried up and joined

to the main stack above the highest fixture or run separately to a point above the roof.

Fig. 4 also shows the condition of the trap and waste pipe just after the fixture has been flushed. The arrows indicate the atmospheric pressure exerted evenly on the water on each side of the trap, so that there is no possibility of syphonage in this case.

Fig. 5 shows a trap which may be used when it is impossible to connect a break-syphon without great inconvenience or expense; it is known as a "pot" trap, the principal feature of it being the large centre section which holds such a large amount of water in comparison with that held by the inlet, that when the water in the latter has sunk to a point where the air can get into and bubble up to the space above the water in the large section, or

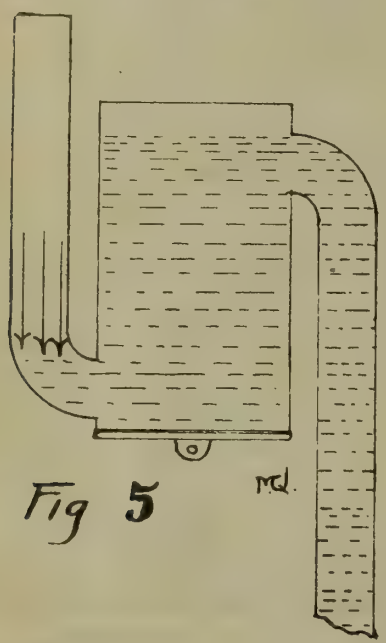


Fig 5

pot," thereby establishing a balance and breaking the syphonic action, the water may flow back from the pot into the inlet, raising the level in the same, say, two or three inches, with a depression of level in the former of, say, a third of that amount, leaving, as will be obvious, an ample seal.

B.C. Plumbers Organize.

THE Master Plumbers' Association of British Columbia was organized on Good Friday, at Vancouver, at a thoroughly representative gathering from all sections of the province. Affiliation with the National Association was decided upon, and delegates will be sent to the convention in Winnipeg next July.

The objects of the new body are the advancement of the trade in all the

RETURNED
JUN 27 1905
To Owner
Our Book 37
Page

"Great oaks from little acorns grow."



SMALL things in the world may accomplish great results.

There is no limit sometimes to the consequences which may follow neglect of a small detail.

A single horse nail seems unimportant, but it may ruin a valuable animal.

With such goods as

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it doesn't pay anybody to bother with inferior goods.

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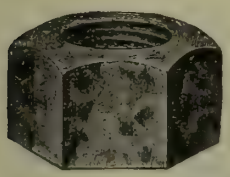
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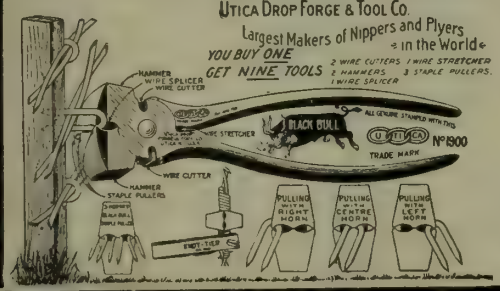
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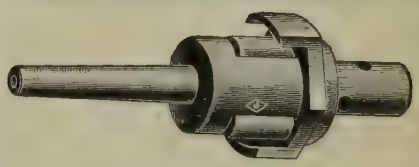
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Self-Feeding Boiler

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has case-hardened body. It will outwear any Expander on the market, and it's cheap.

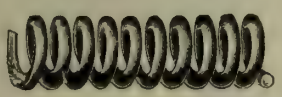
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just now is to persuade you that there is something outstanding in the merits of

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If it is as good as we claim you ought to know it. Better send for Booklet.

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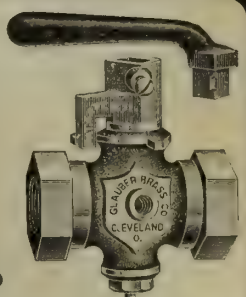
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IT SERVES YOU RIGHT

Can't do anything else.

That's what the NATURO Closet is made for.

Pleases your customers and increases their confidence in you.

Look at the SEAT!

You never saw anything like it.

Does away entirely with a wet floor and cleanliness is compulsory.

Can't say that about any other closet.

Isn't the NATURO therefore much more sanitary than the rest?

We will give you all the literature you want, describing it, to distribute among your customers.

They'll be interested and you will get the business.

A PENNY POSTAL WILL SECURE THE NATURO BOOK

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President.

latest discoveries of science appertaining to sanitary laws, to protect the trade against imposition and encourage amicable relations with employes, to secure Dominion and provincial sanitary laws, and deal with all matters affecting the trade.

The delegates present were: Victoria—J. J. Coughlin, A. Sherat, and A. J. Mallet; Vancouver—J. G. Anderson, M. S. Rose, R. C. Hodgson, and C. Weeks; Nanaimo—W. H. Morton and Randall Bros.; Revelstoke — Edward Moscrip; Grand Forks—George Chapple; Nelson—F. E. Hebden and Messrs. Strachan and Cutler; Cranbrook — Patmore Bros.; Fort Steele—John Wirth; Greenwood—E. W. Bishop; Kamloops—J. Benzie and H. Shotten.



Cup won by the James Morrison Company Hockey Team, 1905.

RETURNED
Jas Morrison Bras
MAY 6 1905
Cut Book 34
Page 49

During the convention the delegates were entertained at a banquet by the Vancouver Association, and to an automobile ride around Stanley Park by the Robertson-Godson Co. Victoria was chosen as the next meeting place.

The officers chosen were: President, J. J. Coughlin, Victoria; vice-president, W. H. Morton, Nanaimo; secretary, J. G. Anderson, Vancouver; treasurer, C. Weeks, Vancouver.

Hockey Winners Banqueted.

The hockey team representing the James Morrison Co., Toronto, which won the championship of the Western Manufacturers' Hockey League last Winter, were banqueted at McConkey's on April 20, the championsnip cup being presented to the team and each player being the recipient of a handsome locket as a souvenir of his prowess. The banquet was a most enjoyable affair, music being provided by Blight's Male Quartette, Mr. Bert Morrison, Mr. James Fiddes, and others.

Opening An Up-Town Branch.

Messrs. R. E. T. Pringle Co., manufacturers and dealers in electrical apparatus and supplies at No. 172 Dalhousie street, Montreal, have opened up an up-town branch at No. 15 Victoria square. A complete stock of all the articles manufactured by this company will be kept in the new warerooms adjoining the offices of the new branch.

To Prevent Rusting of Tools.

The following is recommended to prevent the rusting of tools and machinery which are more or less exposed to the weather. Take one ounce of camphor, dissolve it in one pound of melted lard; take off the scum and mix in as much fine black lead as will give it iron color. Clean the machinery and smear it with this mixture. After twenty-four hours rub with a soft linen cloth until clean. It will keep clean for months under ordinary circumstances.

Ramsay's Pure Lead

You will find the yellow label guarantee on every package of

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It is issued by the White Lead Association of Canada, and stands for superiority. Buy these brands

Ramsay's Unicorn Pure
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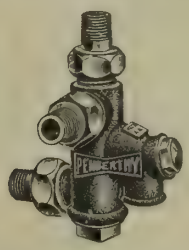
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AUTOMATIC INJECTOR

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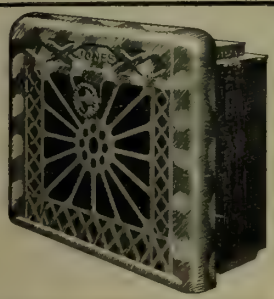
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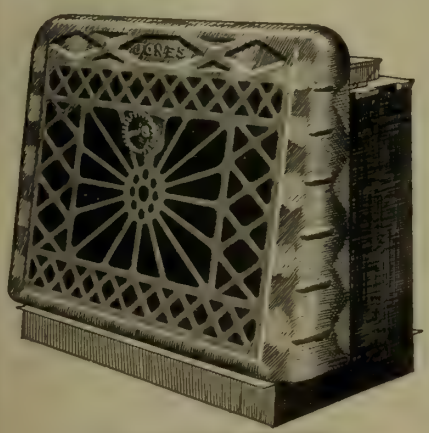


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A No. 12 JONES REGISTER
For second floor room. Bottom Collar fits 3¼x12 or No. 8 Wall Pipe.



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For first floor rooms. Bottom Collar, 7x14. These Registers are fitted with a Top Collar which fits 3¼x12 Wall Pipe or a plate when used for heating one room on the first floor.

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Is the title of our latest catalogue which illustrates and describes the

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These Registers have been on the market since 1901 and are used by between five and six thousand of the best furnace dealers in Canada and the United States.

By the use of Jones Registers the efficiency of the furnace is **increased**; at the same time, the cost of installing furnace is **reduced**.

BE UP-TO-DATE AND USE THE BEST

There is included with each Jones Register, the register which is also a border, a double register box, a ventilator and a deflector. Wall pipes are two feet shorter and but one-half the number of basement pipes ordinarily used are necessary.



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Burchard St. & D.T. & M.R.R., *BATTLE CREEK, MICH.*

OUR CATALOUE FREE ON APPLICATION

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RETURN JUL 12 19

Page 6

Plumbing Markets

Quebec.

Office of HARDWARE AND METAL,
232 McGill Street.
Montreal, May 5, 1905.

LARGE business is being done by the supply houses, most of which report that they are behind with their shipments owing to the rush of orders booked during the past week. Many plumbers hold their orders until May 1, and then order for prompt shipment if conditions warrant this being done. The outlook is for a tremendous building season, and in consequence the supply houses feel the effect in the active buying. The opening of navigation has also something to do with the activity. Prices remain about the same as last week.

Range Boilers—We quote as follows: Iron clad, 30 gallon, $6, and 40 gallon, $7.50 net; copper, 30 gallon, $22; 35 gallon, $24; 40 gallon, $28. The discount on copper boilers is 15 per cent.

Lead Pipe—The erection of numerous buildings has caused an active demand. Prices are firm. Our quotations are as follows: Discount 30 and 5 per cent. f.o.b. Montreal, Toronto, St. John, N.B., and Halifax; f.o.b. London, 15c. per hundred lbs. extra.; f.o.b. Hamilton, 10c. per hundred lbs. extra.

Iron Pipe Fittings—The conditions on this market remain unchanged. Discount on all sizes of nipples up to 6 inch, 67 1-2 to 70 per cent.

Iron Pipe—The demand for iron pipe is so great that the mills find it difficult to forward orders when specified. We quote as follows: Standard pipe, in lots of 100 feet, regular lengths, 1-4 inch, $5.50; 3-8 inch, $5.50; 1-2 inch, $8.50; 3-4 inch, $11.50; 1 inch, $16.50; 1 1-4 inches, $22.50; 1 1-2 inches, $27.00; 2 inches, $36.00; discounts on black pipe, 1-4 inch, 62 1-2 per cent.; 3-8 inch, 62 1-2 per cent.; 1-2 inch, 72 1-2 per cent.; 3-4 inch, and upwards, 74 1-2 per cent. Discounts on galvanized pipe: 1-4 inch. 47 per cent.; 3-8 inch, 47 per cent.; 1-2 inch, 62 per cent.; 3-4 inch and upwards, 64 per cent. Extra heavy pipe of 100 feet lots are quoted as follows: 1-2 inch, $12.00; 3-4 inch, $15.00; 1 inch, $22.00; 1 1-4 inches, $30,00; 1 1-2 inches, $36.00; 2 inches, $50.00. The discount for black pipe is: 72 1-2 per cent., and for galvanised, 61 per cent.

Soil Pipe and Fittings — The demand continues to be good. We quote as follows: Soil pipe standard, 50 and 10 per cent. off list. Standard fittings, 50 and 10, and 10 per cent. off list. Medium and extra heavy soil pipe 60 per cent. off. Fittings 60 and 10 per cent. off.

Ontario.

Office of HARDWARE AND METAL,
10 Front Street East.
Toronto, May 5, 1905.

MAY has brought a tremendous rush of orders to the supply houses, and they are now away behind in their shipments. Not only has the opening of navigation brought many requests for goods, but the early opening of the building season throughout the country districts and the absence of labor troubles in the cities have added their quota of orders, and every plumber now seems to want full lines of goods and to want them at once. Some good-sized bills have been booked for shipment later on in the season, when the buildings are completed. No changes in prices are reported, all classes holding firm on account of the active demand.

No decision has yet been reached in the case against the local supply house, which is reported to have refused to sell goods to a builder.

Lead Pipe—Prices continue strong, with an active demand. We quote: Lead, 7c.; lead waste pipe, 8c.; discount, 30 and 5 per cent.

Soil Pipe and Fittings—These lines are in strong demand, and the same quotations rule. We quote as follows: Medium and extra heavy pipe and fittings, 60 per cent.; 7 and 8 inch pipe, 40 and 5 per cent.

Iron Pipe Fittings—A large business is being done in fittings, the mills being behind in their orders. Prices continue strong. We quote: Malleable fittings, 20 to 25 per cent. for American and 35 per cent. for Canadian; cast iron (standard), bushings, 65 per cent.; headers, 60 per cent.; flanged, unions, 60 per cent.; lipped unions, 60 and 5 per cent.; malleable bushings, 60 per cent.; nipples up to 6 inch inclusive. 75 per cent.

Copper Range Boilers — Trade is active. The discount of 15 per cent. continues.

Galvanized Iron Range Boilers—Orders are being placed in large quantity owing to the activity in building circles. Quotations are unchanged as follows: 12 gallon capacity, standard, $4.50; extra heavy, $6.50; 18 gallon, standard, $4.75; extra htavy, $6.75; 24 gallons, standard, $4.75; extra heavy, $6.75; 30 gallon, standard, $5; extra heavy, $7.50; 35 gallons, standard, $6; extra heavy $8.50; 40 gallons, standard, $7; extra heavy, $9.50; 52 gallons, standard, $11; extra heavy, $14; 66 gallons, standard, $18; extra heavy, $20; 82 gallons, standard, $21; extra heavy, $24; 100 gallons, standard, $29; extra heavy, $34; 120 gallons, standard, $34; extra heavy, $40; 144 gallons, standard, $47; extra heavy, $55.

Iron Pipe—The demand is very large and mills are rushed to their full capacity. We quote as follows: Black, 1-4 inch, $2.03; 3-8 inch, $2.06; 1-2 inch, $2.29; 3-4 inch, $2.87; 1 inch, $4.12; 1 1-4 inch, $5.62; 1 1-2 inch, $6.75; 2 inch, $9. Galvanized, 1-4 inch, $2.86; 3-8 inch, $2.89; 1-2 inch, $3.14; 3-4 inch, $4.02; 1 inch, $5.77; 1 1-4 inch, $7.87; 1 1-2 inch, $9.45; 2 inch, $12.60.

Solder—Prices continue firm with an active demand. Bar solder, half and half, guaranteed, is quoted at 19c.; wiping solder at 17 3-4c., and refined 18c.

Enameled Ware—A very firm demand is reported, orders being placed with the jobbers in large quantities. The new quotations on Canadian ware are as follows: Baths, rolled rim, 5 feet, 2 1-2 inch rim, 1st quality, $17.50, specia l,$15.50; 3 inch rim, 1st quality, $19.00, special, $17.00; 5 1-2 feet, 2 1-2 inch rim, 1st quality. $19.00, special, $15.50; 3 inch rim, 1st quality, $20.50, special, $18.50. Lavatories, discounts 30 to 40 and 5 per cent. Sinks, 18 x 30 inch, flat rim, 1st quality, $2.45; special, $2.

Putty for Gaspipes.

A joint for gaspipes which is said to be much cheaper than the usual white lead cement is made by working up equal weights of Roman cement, brick earth, and quicklime with linseed oil. Another putty is made with melted pitch. brickdust and oakum. The metal should be warmed, and the putty, made in such proportions that it is plastic to the finger, is wiped on. This last recipe is specially useful when pipes are joined by the small end of one pipe being fitted into the socket or enlarged end of another.

TO HARDWARE DEALERS.

As the farmer is the sinew of the country in agriculture, so the merchant and dealer are the sinews of trade and commerce, hence the necessity of a full knowledge of the industries and products of the country in compact form for the merchants' and dealers' information and guidance.

There is a spirit of loyalty permeating the pulse of trade in all countries, and when the essential information on the products of a country is at hand, that loyalty should assert itself for the benefit of home trade and the growth of the country.

The Manufacturers List Co., Montreal, issue the following publications:

The Canadian Industrial Blue Book, Buyers' Guide of Canada, 1904-7, 576 pages, cloth bound. Price, $5.00.

A Classified Article List of Industrial Products for Canadian Buyers, 1905-6, 400 pages, cloth bound. Price, $2.00. Both books to one address, $5.

The work is under the patronage of the Dominion Government and a large number of our leading manufacturers, and is solely on its merits for the general good of all.—(Adv't.)

SHEET BRASS AND COLD ROLLED COPPER

We are now fully equipped and can fill all orders for these metals.
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are unequalled for General Appearance, Style and Construction

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Manufacturers of

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Why you Should Specify the Oxford Boiler

In the Oxford Boiler we have taken advantage of every point known to the science of hot water heating.

Without enlarging the boiler we have greatly increased the radiating surfaces, thus almost doubling its power. The fire-pot is of course jacketed with water, practically insulating the fire and keeping its heat within the boiler.

The sides of the fire-pot slant inwards over the fire, giving a greater surface for its action. The first water section is double the depth of other sections and nearer the fire than in any other make, and the flue openings are bell-shaped, presenting an enlarged surface to the direct heat rays.

All joints are made with our push nipple, no rubber or fabric washers being used. To this is due the fact that they never leak.

You cannot afford to install any heating apparatus without first investigating the Oxford Systems. We would like to send you our new catalogue explaining and illustrating the Gurney Oxford Steam and Hot Water Apparatus. It tells the whole story and we send it free on request. Write for it.



The Gurney Foundry Co., Limited

TORONTO WINNIPEG VANCOUVER

The Gurney-Massey Co., Limited, Montreal.
The Gurney Standard Metal Co., Limited, Calgary, Alta.

THE ROYAL PAPER MILLS CO.

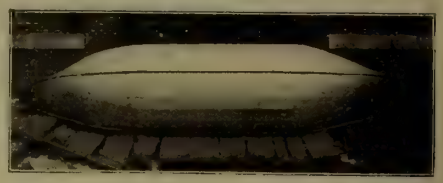
THE up-to-date Rice, Barton & Fales machine, which this company has erected during the past Summer, has now been in operation for the last four months, and has given perfect satisfaction. It is now turning out the best grades of book and writing papers, also bonds and linens. The second machine, which used to run on lower grades, has also been rebuilt, with all the modern improvements, and is now turning out fibres and No. 1 manillas, also other higher grades of paper.

In connection with this paper mill there is a pulp mill, which manufactures No. 1 soda pulp, the output of which is twenty-five tons per day; one-half of this is used up in the paper mill, and the balance is sold in their local market. The firm's business has extended, as the output of the paper mill is now from 18 to 20 tons per day, and running with plenty of orders.

This mill is situated on the St. Francis River, 17 miles from Sherbrooke, and has a large area of timber limits, with an inexhaustible supply of lumber. There is a good supply of water, having five large lakes to draw from, which water is regulated by dams situated at the outlets, which give a plentiful supply of water to the mills during any dry season. During the past Winter, which was exceedingly cold and dry, the mills, both the paper and soda pulp, have run full time, with no shortage of water whatever.

SHEET METAL BOAT.

THE sheet metal boat which is illustrated in this number is made by H. F. Thompson, of Decorah, Iowa, who is prepared to supply patterns and drawings. The boat is well supplied with air chambers, and is said to give satisfaction in use. It can be easily and cheaply made without special tools or models, the required materials



for its construction being four sheets of 22-gauge galvanized iron, two pieces of $\frac{3}{8}$ gas pipe fourteen feet long, and about eighteen sq. feet of $\frac{7}{8}$-inch lumber. It is an excellent hunting and pleasure boat, fast, safe, light and durable. It will carry from four to six persons.

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150-foot roll, 4 feet high.....$4.00
150-foot roll, 5 feet high..... 5.00
150-foot roll, 6 feet high..... 6.00

For poultry and garden. Better than old style. Of local dealer or us. Freight paid.

THE PAGE WIRE FENCE CO. LIMITED 208

Walkerville, Montreal, Toronto, Winnipeg, St. John.

THIS IS THE

OLD STAND-BY

None better on the market unless it is the Triumph.

If your Jobber cannot supply, write us for prices.

NO. 233.—WILCOX TACKLE-BLOCK WIRE STRETCHER



WILCOX MFG. CO. OF ONTARIO, Limited, London, Ont.

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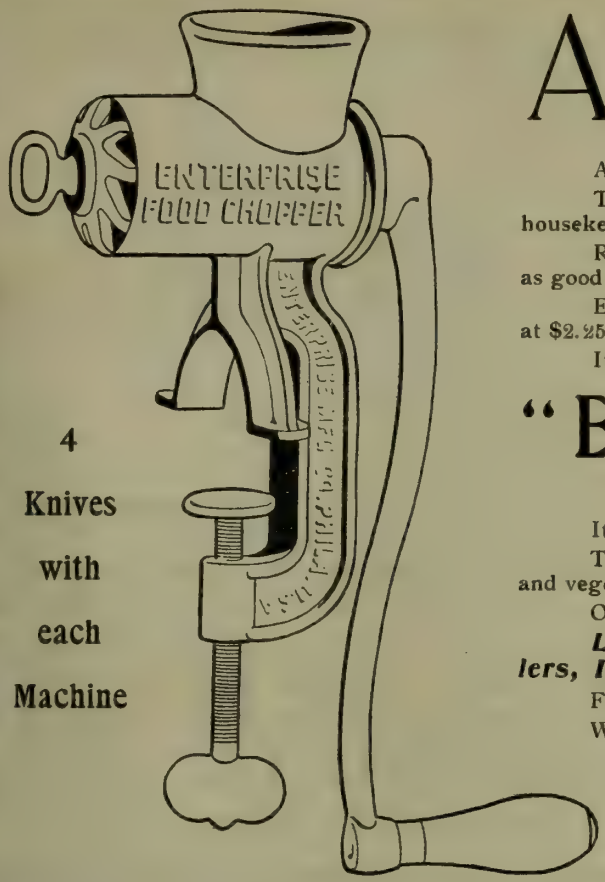
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Exactly like No. 100, which sells at $1.50, and No. 300, which sells at $2.25, except in size.

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"ENTERPRISE" FOOD CHOPPER

No. 50

It makes the line complete.

Three sizes of household choppers, guaranteed to chop raw meat and vegetables of all kinds. Fine or coarse.

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Look over your line of Cherry Stoners, Lawn Sprinklers, Ice Shredders, Fruit Presses.

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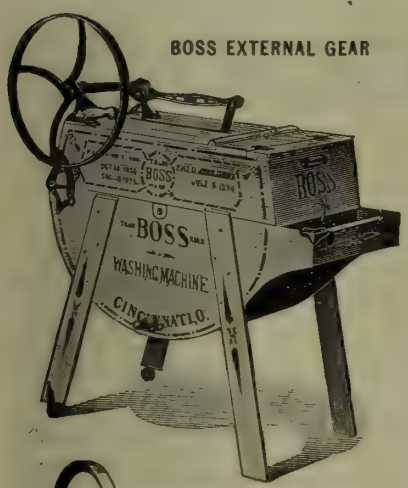
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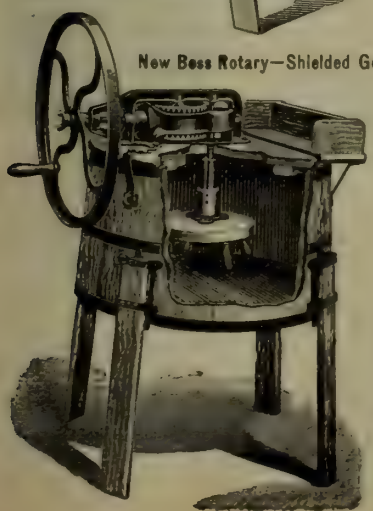


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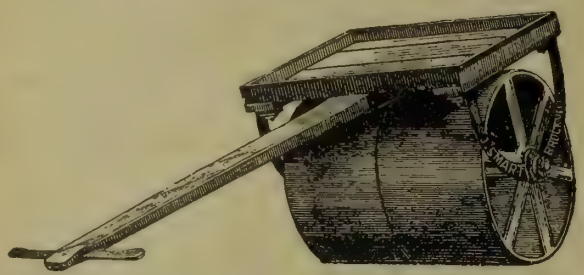
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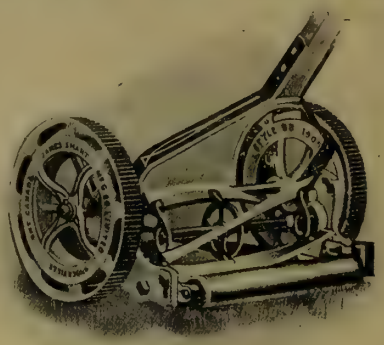


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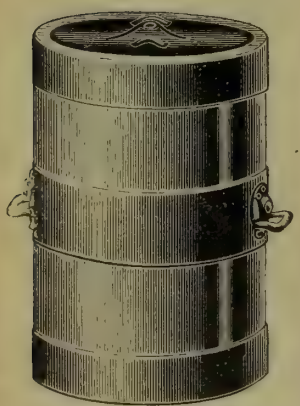
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ICE-BREAKER FOR LAKES.

WESTERN Canada is vitally interested in any project by means of which the opening of navigation on the lakes may be hastened and its close delayed. At the present time the shipping season at Port Arthur and Fort William is shorter than that at Duluth, and this circumstance operates to the disadvantage of grain shippers and vessel owners. It is also a disadvantage to business men in the West. Freight rates are much less by lake and rail route than by the all-rail route, and western houses are always anxious to bring in their goods by rail. It is felt that the time has come when a thorough trial should be given to ice-breakers on the lakes, and the whole West will endorse a resolution on the subject passed by the Winnipeg Board of Trade. This resolution, which was moved by R. Muir and seconded by J. H. Ashdown, was as follows:

"Whereas representations have been made to the Dominion Government during many years past that effective steps be taken to break the ice in the harbors of Fort William and Port Arthur in both the Spring and Fall seasons during such time as the same is practicable and of important service and value to lake shipping; and

"Whereas within the past few days it has been demonstrated that even a strongly-built steel grain-carrying vessel, taking considerable risk, has broken its way through from a foot and a half to two feet of ice for a distance of over ten miles, and arrived at the dock of Fort William; and

"Whereas the captain of said vessel has reported that he left seventeen steamers at Sault Ste. Marie awaiting word that a channel was cut through the ice in Thunder Bay, which indicates the great loss to the merchant marine, occasioned by the lack of a proper Government steamer equipped for ice-breaking of the moderate character described; and

"Whereas it is a matter of serious complaint that the shipping season at Thunder Bay ports, from the above cause, is greatly shortened, and not equal to the open season at the port of Duluth, which produces losses to shippers of western grain, as well as to vessel owners;

"Therefore be it resolved, that this board strongly urges upon the Dominion Government the extreme advisability and necessity of at once taking steps to secure a suitable ice-breaking vessel, in order that it may be of practical service during this Autumn and succeeding seasons."

EXTEND YOUR BUSINESS.

NO business man can afford to rest content with the business he already has. The law of nature, that progress is necessary to prevent decay, is also true of commercial life. The most promising field for an extension of business, in the case of the average storekeeper, is among the farmers. There are particular reasons which make the trade of the farmers valuable. Chief among these is the fact that it is practically a cash business. A farmer comes into the market and exchanges or sells his produce and exchanges the money for the necessaries of his own home. There is no question of delayed payments or bad debts. Again, this class, as a rule, does not demand the great variety of goods which must be shown to a town customer before making a sale. Neither is there the same fluctuation among the residents as there is likely to be in a town. In the latter case a considerable number of customers are merely transient. The farmer, on the contrary, seldom moves, unless to come into the town when he retires.

For these and other reasons the trade of the farmers should be cultivated. This can be done by special appeals to them on market days, by advertising in the papers, for the farmer reads his paper from cover to cover, and by displaying goods which are likely to catch their fancy. The merchants of a town in Western Ontario made a combined effort to induce the farmers to come into town to the market two days a week. Special bargains and sales were offered on Wednesday and the idea met with considerable success. The advantage of this business should be recognized by all used.'

PALLADIUM vs. PLATINUM.

THE determination of the United States Geological Survey to make an examination of the platinum resources of the United States, owing to the increased demand for that metal, may give more prominence to the question of palladium as a substitute for platinum.

Palladium and platinum are known to exist in the many nickeliferous pyrrhotite deposits throughout the world, and is known to exist for a certainty in those of Norway aad Sweden and especially in the deposits around Sudbury, Ont. However, until very recently palladium has not been very diligently sought for, and the recent interest taken in the metal has been occasioned by the ever-increasing demand for platinum.

Palladium and platinum are in many respects very similar in physical and chemical properties, and consequently there are many articles now made of platinum which might be made of palladium. The most useful properties of platinum are its malleability and ductility, its high fusing temperature and its chemical property of resisting the action of the concentrated mineral acids. Palladium is quite as malleable and ductile as platinum, but has a somewhat lower fusing point, and is also

corroded slightly by the concentrated mineral acids, but only by these. Thus it is that palladium might replace platinum in many ways.

So far little if any attention has been given to the palladium which is known to exist in the nickeliferous ores around Sudbury, palladium not even being mentioned in the Canadian Government reports on the mineral resources of the country. The amount of palladium and platinum present in the Sudbury ores varies from mere traces to one or two ounces per ton, aad of course these metals would be obtained as a byproduct of the nickel-refining industry.

The process of refining is rather complicated, and the question is whether there is sufficient metal in the ores to pay for the refining on an industrial scale.

INTERDEPENDENCY OF INDUSTRIES.

THE claim made by the Victoria Colonist of April 13, that "the British Columbia manufacturer and wholesaler enjoy few, if any, of the advantages of reciprocity with the rest of Canada," seems to be contradicted by the following extract taken from a recent article in the Colonist on the subject of "The Interdependency of Industries." When it is seeking for excuses for the new tax on commercial travelers the Colonist has a different story to tell than when it is discussing the development of industrial activity in British Columbia:

"In the contemplation of industrial activity one is prone to be circumscribed. The ordinary observer sees no advantage in business development unless its local application is paramount. The proposition that the Pacific coast is materially interested in the upbuilding of industry in the Atlantic provinces would not be hastily assented to. Yet during a conversation with Mr. N. Curry, of Amherst, Nova Scotia, it was brought home to a Colonist representative that the peculiar interdependence of industrial activity in all parts of our broad Dominion is apt to be overlooked. Mr. Curry is president of the firm of Rhodes, Curry & Co., of Amherst, one of the largest manufacturing establishments in the Maritime Provinces, whose business last year represented some $2,300,000, and which paid $367,000 in wages during that period. The manufacture of all sorts of railway conveyances is an important branch of the Rhodes-Curry works. Their receipts from the sale of cars alone in 1904 amounted to $1,400,000, and the establishment has at the present time about $1,000,000 worth of orders for cars on hand. During the past three years they sold about $2,000,000 worth of cars to the Canadian Pacific Railway alone. They also manufacture largely for the Intercolonial and other Canadian roads.

" 'Do you use British Columbia timber at all in car construction?'

" 'Oh, yes. Nearly all our roofing and siding comes from the Pacific coast. We also use a great deal of your clear fir and cedar for general work—that is, in connection with our planing mill, where we turn out all sorts of building materials, bank office furnishings, etc. We use about 3,000,000 feet of British Columbia timber annually, and we have been dealing with one of your coast mills for about eighteen years.'

"To a reporter's interrogation, Mr. Curry admitted that it did seem a long way to haul timber. 'But then,' he remarked, 'it is splendid material.'

" 'Do you use any other British Columbia product in your manufactures?'

" 'The most of our copper comes from your province and we require large quantities of it. It is used for axle bearings and car trimmings. Considerable quantities of tin and lead are also

THE LATE MR. GOODERHAM.

THE Canadian business world has sustained a distinct loss in the death of Mr. George Gooderham, of Toronto, which occurred on Monday of this week. Not that it will occasion any financial disturbance on the "street," for the simple reason that he was a thorough business man who kept his affairs thoroughly in hand and depended upon no false props.

At the same time, Mr. Gooderham's interests were so great and so varied that there is scarcely a branch of finance or commerce with which he was not in touch. Manufacture, real estate, banking, insurance, mining,—in all of these he was a colossal figure. He was pre-eminently the prompt, reliable, active, business man who found his chief enjoyment in the round of commerce and finance.

It is difficult to estimate the influence of such a personality in directing the course of national trade and commerce, especially when it is remembered that there have been few commercial undertakings of any magnitude in Canada within the last fifty years that have not had associated with them the name of the late George Gooderham.

TRADE AT HOME.

IT is the duty of every business man to inculcate in the citizens of his town the desirability of buying from home merchants. This is not a matter for sentimental theorizing. The evil of patronizing outside stores is present, and it must be combatted by retail merchants with vigor and dispatch.

It requires no argument on our part to prove that this is unfair. The whole fabric of civic life depends upon the organization of every element of the town for the common good. The merchant invests more or less money in his stock and store; he pays taxes on this; he pays wages which enable his clerks to live and contribute their share to the general fund; the public institutions of the town are to a large extent dependent upon his generosity; it is through the mutual intercourse of the farmers and himself that a market is established; the schools are supported largely through his taxes. Everything in the town which depends upon good citizenship, generosity, and enterprise, is directly supported or largely benefited by his presence.

What does the mail order store in the big city do for the town? Its proprietor pays no taxes, employs no men, has absolutely no stake in the place. The maintenance of good streets and public buildings are of no account to him. His influence is on all sides injurious. In the closing or weakening of the retail stores he does a double injury. Not only is the merchant ruined, but the numerous clerks and workers who are contributory to his business are thrown out of employment. So the town loses the benefit from this class also. The mail order house is always drawing the money away from the town; it contributes in return nothing.

These are facts which should be kept before the people. It is not sufficient for the merchant to know that such conditions are not right. He should start a crusade against them; get the local newspaper interested in it and then set about stirring up public sentiment against the unfair practice. Let him, however, never forget that the best weapon to use in such a campaign is up-to-date merchandising. If possible beat the mail order man on his own ground.

ORGANIZER APPOINTED.

A MEETING of the executive of the Retail Merchants' Association of Western Canada was held in the Leland Hotel, Winnipeg, on the evening of April 27. President Lawlor, of Killarney, presided.

The most important subject which came up for consideration was the selection of a secretary-organizer for the association. Previous to the meeting, applications had been called for through the advertising columns of the daily papers, and some twenty odd applicants sent in letters or appeared in person. The choice of the executive is W. A. Coulson, a bright young newspaperman formerly connected with the Ottawa Free Press. He will enter upon his duties almost immediately, and will visit the entire western trade. Mr. Coulson is advocating a good cause and should meet with a good reception from western merchants. His address is 384 Kennedy street, Winnipeg, and any communications addressed to him will receive attention.

At the meeting in February a number of names were placed upon the executive roll of merchants who were not present. Two of these have found it impossible to act, although they are in hearty sympathy with the movement. Accordingly, Messrs. Brown and Galloway have been replaced by Messrs. Hill, of Griswold, and Brown, of Neepawa.

Secretary A. T. Embree, of Boissevain, retires, his duties being taken over by the newly-appointed organizer. Mr. Embree also acted as treasurer, and Robert Rollins, of Killarney, was appointed at the executive meeting to have charge of the association's funds. The president and treasurer belong to the same town and should be able to work together conveniently.

It was decided to call another general meeting in Winnipeg during Exhibition week. The exact date will be announced later.

MAKING A REPUTATION.

A Minnesota hardwareman made quite a hit sharpening scissors, knives, etc., last Winter. He had a man in the shop who was not very busy, so he advertised that he would sharpen anything from a penknife to a pair of skates, including scissors, butcher knives, can openers, meat choppers, chopping knives, paring knives, etc., at very reasonable prices to keep his men busy. He worked up a good trade. Many a housewife brought the family butcher knife and scissors to him, and others brought in chopping knives, scissors, etc. It is a good idea.

A HOUSE TOOL DEPARTMENT.

Why not have a "house tool" department. There is fine chance to bunch together the things that every man wants around the house. These include plyers, pliers, tack and claw hammers, screw drivers, small alligator wrenches, saws, squares, tack pullers, carpet stretchers, braces and bits, corkscrews, chisels, hatchets, gimlets, etc. Some department stores have counters devoted to these goods, and they seem to be attractive to the trade.

PITHY PARAGRAPHS.

Put a new trim in that window today.

Advertise seasonable goods. Don't let an ad. stand until it is six months behind time.

Refrigerators are needed now. As soon as the weather fails to get below the freezing point at night there is need of a cold storage place in every household. Do not make the mistake of thinking the refrigerator is a hot-weather commodity alone—far from it.



Group Photo of Delegates to Third Annual Convention of Ontario Master Plumbers' Association, Guelph, April 21, 1905.

Little things like nail clippers and files, key rings and chains, etc., are all money makers and should be kept at the front.

Keep the stock free from dust. Don't neglect anything just because it is on the top shelf. Somebody will want something from up there, and then you will be ashamed of the dirt when you take the article down.

Do you sell any water filters? If they are needed at any time of the year it is in the Spring, when the accumulated filth of the Winter is soaking into the earth or being washed into the streams or lakes from which cities draw their supply. There are many filters on the market, and besides there are water coolers, that are much in demand in the Summer months.

MARKETS AND MARKET NOTES

(For detailed prices see Current Market Quotations, page 58.)

Quebec Hardware Markets.

Office of HARDWARE AND METAL,
232 McGill Street,
Montreal, May 5, 1905

AN increase in the number of orders arriving has been noticed during the past few days. This increase is due to the fact that navigation to the West has now opened up, and retail merchants residing in the vicinity of navigable waterways in the Lower Provinces are beginning to send in orders, as they can now benefit from the low freight rates. The strong demand for carpenters' tools this Spring has resulted in the prices becoming very firm. Indeed, a new list on chisels and draw-knives has been published by the manufacturers. There is a strong tendency at present to advance everything pertaining to carpenters' tools. All such hardware as that used in constructing or in connection with buildings has an excellent demand, and prices are firm. The orders continue to be well assorted with the exception of those received from the Lower Provinces, where trade still has a tendency to be quiet. The outlook in regard to the trade this year is good, and many of the wholesale houses have purchased heavily in shelf and builders' hardware, in the hope that the demand for these two lines of goods shall be in advance of last year.

Axes—No change has occurred in the trade on this market. Trade is expected to be quiet for a few months. We quote the following: Chopping axes, unhandled, $6 to $9.50 a dozen; double bitt axes, $9.50 to $12 a dozen; handled axes, $7.50 to $9.50; Canadian pattern axes, $7.50 a dozen.

Handles—A fair demand exists for handles. The demand is expected to remain steady until the busy season begins, which is some three months later. Prices remain the same. We quote: Axe handles, No. 3, $1.25; No. 2, $1.50; No. 1, $1.90 a dozen; adze handles, 34 inch, $2.20 a dozen; pick handles, No. 2, $1.70; No. 3, $1.50 a dozen.

Sewing Machines—There has been a good demand for sewing machines this Spring. Good prices have been obtained, and the outlook at present is very good. We quote as follows: Hand sewing machines, $11 each net; complete machines with stand, $18 and up, according to quality.

Lanterns—Trade still continues to be quiet, and is expected to remain so until something definite regarding the change in prices (if there is to be any) has been arrived at. Our quotations are: Cold Blast, $4.50; No. 0 Safety, $3.50.

Barb Wire—Orders still continue to go forward quite freely. No delay has been caused on the part of the manufacturer in shipping orders, and at present the outlook regarding the trade is good. The demand is expected to be heavier than that of last year. We quote the following: $2.75 for 100 lbs. f.o.b. Montreal; $2.37 1-2 f.o.b Cleveland. Carlots of 15 tons, $2.25 f.o.b. Cleveland.

Fence Staples—The more extensive operations in the fencing industry have caused a better demand for staples. Prices are firm, but no advance has taken place. Our quotations are as follows: $2.65 per 100 lbs. keg, for bright, and $3 for galvanized; 25 to 50 lb packages 25c. extra.

Rivets and Burrs—Trade on this market is steady. The firm condition of the market has made the purchaser feel more confident, with the result that orders have become more numerous. Best iron rivets, section, carriage and wagon box, black rivets, tinned do., copper rivets and tin swede rivets, 60, 10 and 10 per cent.; swede iron burrs are quoted at 60 and 10 and 10 per cent. off new lists; copper rivets with the usual proportion of burrs, 45 per cent. off; and coppered iron rivets and burrs in 5 lb. carton boxes at 60 and 10 and 10 per cent.; copper burrs alone, 30 and 10 per cent., subject to usual charge for half-pound boxes.

Screws—There still seems to be a slight difficult in securing certain sizes of screws, which have had the heaviest demand. Prices remain the same. We quote the following: Round head, bright, 82 1-2 per cent.; flat head, bright, 87 1-2 per cent.; brass, round head, 75 per cent.; brass, flat head, 80 per cent.

Bolts and Nuts—The heavy demand this Spring has resulted in the manufacturers having to employ means to increase their output in order to meet the demand on an equal footing. With the exception of a slight tendency to delay the shipment of orders trade has a bright appearance.

Wire Nails—The demand this Spring for wire nails is far in excess of that of former years. This due to the increase in the building operations. Prices are firm but continue unchanged. Our quotations are as follows: $2.25 a keg f.o.b. Montreal.

Cut Nails—Only a fair demand exists for cut nails. The demand for these nails is decreasing with the passing of each year, and it is supposed that they are being displaced by the wire nails We quote the following, namely: $2.20 a keg f.o.b. Montreal.

Chisels and Draw Knives—A new price list in connection with chisels and draw knives has been published.

Horseshoes—If anything the demand has become weaker during the past week, and it is supposed that retail merchants have concluded purchasing for the present. Prices are all firm, especially with steel shoes. We quote: P.B. New Pattern, base price, $3.50 per hundred pounds; M.R.M. Company latest improved pattern iron shoes, light and medium pattern, No. 2 and larger $3.65, No. 1 and smaller $3.90, snow pattern, No. 2 and larger $3.90, No. 1 and smaller $4.15. Light steel shoes, No. 2 and larger, $3.90, No. 1 and smaller $4.15; featherweight, all sizes 0 to 4, $5.50; toe weight, all sizes 1 to 4, $6.75. Packing—Up to three sizes in a keg ten cents per hundred pounds. More than three sizes twenty-five cents.

Horse Nails—No change has occurred on this market. The demand is fair and prices continue unchanged.

Sporting Goods—There continues to be a strong probability of a change in the price of single-barrel shot guns. There is a slight increase in the demand but the bulk of the business is expected to be transacted in some two months' time. Our quotations are as follows: Canadian-made shells, black, 25 and 5 per cent.; smokeless, 25, 10 and 5 per cent.; American centre-fire cartridges, list net; sporting and military, 10 per cent. advance on list; primers, $2.05 per thousand; American loaded shells, 20 per cent. discount; B. B. caps, $2 per thousand; C. B. caps, $2.60 per thousand; standard shot, $6.50 per hundred lbs.; chilled, $7 per hundred lbs.; buck and steel, $7.50 per hundred lbs.; ball, $8 per hundred lbs. We quote discounts 15 per cent. on shot f.o.b. Montreal, Toronto, Hamilton, London, St. John, and Halifax.

Building Paper—The demand continues to be steady. Every variety of paper used in building has an excellent demand. Prices continue unchanged.

Cordage — Heavy rope for use in vessels and yachts has had a good demand during the past week. Cotton rope for household purposes has also a good demand. Prices remain the same.

Cement and Firebrick—Every indication points to a great amount of work being accomplished during the coming Summer, and the demand, locally, is expected to be good. Trade in firebrick has been quiet, and it is expected to continue so until the arrival of new stock, when prices are expected to decline. Our quotations are: English cement, $1.90 to $2.00; Belgium, $1.60 to $2.00 per barrel ex store; and American, $2.00 to $2.10 ex cars; Canadian Portland, $1.90 to $2.00. Fire-

PORTLAND CEMENT

DRAIN PIPES, CULVERT PIPES,
SEWER BRICKS, INVERTS,
FIRE BRICKS, FIRE CLAY,
BUILDING BRICKS,
FIRE PROOFING
ROAD PAVING BRICKS
.and BLOCKS.

Correspondence Invited

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Especially adapted for Car Wheels, Malleable Castings, Boiler Tubes, Engine Cylinders, Hydraulic and other Machinery where great strength is required: Strong, High Silicon Iron, for Foundry Purposes.

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Made from carefully selected Lake Superior Ores, with Connellsville Coke as Fuel, "Midland" will rival in quality and grading the very best of the imported brands.

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For all purposes requiring the best quality.

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Direct Importers of:

Metals of every description, Wire Rope, Portland Cements, Firebricks, Ore Sacks, Grain Bags, etc, etc.

brick, English and Scotch, $18.00 to $22.00; American, $30.00 to $35.00.

Coil Chain—There is a fair demand for chain. Prices are firm but continue unchanged. We quote: 5-16 inch, $4.25; 3-8 inch, $3.75; 7-16 inch, $3.55; 1-2 inch, $3.35; 9.16 inch, $3 .30; 5-8 inch, $3.20; 3-4 inch, $3.05; 7-8 inch, $3; 1 inch, $2.95.

Green Wire Cloth—The demand has a tendency to be weaker, and the supposition is that merchants have concluded stocking up. We quote: Per hundred square feet, $1.50.

Poultry Netting — A fair demand exists for poultry netting. Prices are firm. Discounts for two inch nineteen gauge standard, and sixteen gauge extras, at 60 per cent.; finer meshes, 55 per cent.

Spring Hinges—As the majority of retail merchants have ordered to the extent of their capacity for stock trade has become quieter. Prices continue unchanged. Our quotations are: No. 5, $7.25 per gross; No. 19 $18 per gross; No. 20, $18.80 per gross; No. 120, $20 per gross; No. 51, $9.25; No. 50, $27.50.

Ontario Hardware Markets.

Office of HARDWARE AND METAL,
10 Front street east,
Toronto, May 5, 1905.

ACTIVITY reigns in the jobbing houses, large orders of a sorting-up nature being received from all sections of the country, and indications point to a record year's business. The boats are taking freight and are relieving the congestion to some extent. Weather conditions have been such as to contribute largely to the general prosperity, farmers being well advanced with their work and having done a great deal of fencing this Spring.

The builders have also been able to get well advanced on new contracts, and tools, nails, etc., have been in active demand. There is a good steady trade in heavy hardware fully up to the expectations of the dealers.

The opening of the fishing season has increased the demand for tackle, while the mild Spring weather has given an impetus to the trade in baseball goods and other popular sporting lines. Wire cloth, screen doors, refrigerators, ice cream freezers, lawn hose and lawn mowers are also in growing demand.

Lawn Mowers—Merchants are preparing for an active demand.

Sporting Goods—The opening of the fishing season has caused a large demand for tackle.

Washing Machines — The demand continues steady.

Chain—There is still an active call for chain, particularly for the small sizes used in the agricultural districts. We quote: 1-4 inch, $6.50; 5-16 inch, $4.45; ⅜ inch, $3.85, 7-16 inch, $3.70; ½ inch, $3.55; 9-16 inch, $3.45; ⅝ inch, $3.35; ¾ inch, $3.25.

Step Ladders—The demand continues very good, and a large movement of goods is reported. We quote at 10c. per foot

TERNE PLATES

"Dominion" Extra quality, bright finish

"Dean," The old reliable.

"Canada" Good standard quality.

A. C. LESLIE & CO.
MONTREAL.

ASK YOUR CUSTOMERS

if they don't need new pumps. If they do, sell them our

Standard
Anti-Freezing Pumps

They'll appreciate getting a pump that doesn't have to be thawn out every zero morning.



McDougall Pumps —Made in Canada.

Write for Catalogue and Prices.

THE R. McDOUGALL CO., LIMITED
Galt, Ont.

BAINES & PECKOVER
TORONTO.

Ontario Agents for

B. K. MORTON & CO.'S

"ALPHA"

HIGH SPEED STEEL
AND
Crucible Cast Steel

Large stock on hand. Send for Stock List

NOVA SCOTIA STEEL & COAL CO., Limited

NEW GLASGOW, N.S.

Manufacturers of

Ferrona Pig Iron

And SIEMENS-MARTIN

OPEN HEARTH STEEL

for 3 to 6 feet, and 11c. per foot for 7 to 10 feet ladders.

Extension Ladders—Sales are reported to be fairly large. Waggoner, 40 per cent. off list.

Galvanized Wire—Quite a trade still exists with the same quotations ruling. We quote: $2,37½ f.o.b. Cleveland.

Coiled Spring Wire—Prices remain stationary, the demand continuing quite strong.

Barb Wire—Trade continues active. Farmers are doing a lot of fencing, and dealers are well stocked with wire.

Wire Nails—The nail trade continues very good, prices being unchanged. Nominal quotations are $2.25 f.o.b. Toronto.

Cut Nails—The call for cut nails continues steady. Prices remain firm. Quotations are $2.40 per keg f.o.b. Toronto.

Horseshoes—The demand continues quite active. We quote: "P. B." base, $3.65; "M.R.M. Co., latest improved pattern" are: Iron shoes, light and medium pattern, No. 2 and larger, $3.80; No. 1 and smaller, $4.05; snow No. 2 and larger, $4.05; No. 1 and smaller, $4.30; light steel shoes, No. 2 and larger, $3.95; No. 1 and smaller, $4.20; featherweight, all sizes, 0 to 4, $5.50; toe weight, all sizes, 1 to 4, $6.75. If shipped from factory 15c less.

Horsenails — There is a very good demand, and prices remain unaltered.

Screws—Orders are being received in fair quantity. Prices are unchanged.

Rivets and Burrs—The firm price of iron products has not caused a decrease in the demand. Prices are unchanged.

Bolts and Nuts—Call for goods continues active, it being too early for any shortage to be noted.

Woodenware—All lines are moving well.

Cordage—The cordage trade is over for the Spring, and binder twine is now on the move. The Harvester Trust has raised its prices half a cent, but the Canadian houses have not yet made the advance. Our quotations are: Red Cap, 11½c; Tiger, 10½c; and Standard, 9½c; manila, 14½c; British manila, 11c; sisal, 10½c; double lathyarn, 10½c; single lathyarn, 10c; sashcord, "Hercules," 30 to 32c; "Star," 36 to 38c; cotton twine, 3-ply, 24c; 4-ply, 29c; calking cotton, 16½ to 17c; cotton waste, colored, 6¾c; white, 11 to 13c.

Cement—A large volume of business is being done, the Canadian lines meeting with little competition from the Americans. We quote: For carload orders f.o.b. Toronto, Canadian Portland, $1.65 to $1.75; American Portland, $1.65 to $1.75. For small orders, ex warehouse: Canadian Portland, $2: American Portland, $2.

Firebrick—A fair demand is reported. Our quotations are as follows: English and Scotch firebrick, 30 to 35c; American, low-grade, 25 to 30c; high-grade 32½ to 40c.

Building Paper—Trade in all classes of building materials is brisk.

Hides, Tallow, Skins and Wool..

Hides are firmer in Chicago this week and a slightly more active inquiry in Toronto is noted as a result. Wool is coming more freely, although the market cannot be said to have opened as yet. Trade generally continues quiet and prices are as last advised. We quote the following prices:

Hides, No. 1 green steers, per lb		0 09
" " 2 " " "		0 08
" No. 1 green, per lb		0 08½
" " 2 " "		0 07½
Country hides, flats, per lb	0 07	0 07½
Calf skins, No. 1, selected		0 11
" " No. 2		0 09
Deacons (dairies), each		0 80
Sheep skins		1 25
Rendered tallow, per lb	0 04	0 04½
Unwashed wool, new clip, per lb	0 13	0 12
Pulled wools, super, per lb	0 21	0 23
" " extra "	0 22	0 24

METAL MARKETS.

IMPORTATIONS are arriving from England, the first boats to arrive carrying record cargoes. The depleted stocks in the warehouses will not be increased to a sufficient size to supply the large demand anticipated during the coming season. So far the year has shown every prospect of being a large one for business, and the outlook is promising indeed. All depends, however, upon the United States market, it being a great factor either from a buying or selling standpoint. The receipt of increased stocks from England is not expected to result in any fall in prices, the present strength shown indicating that a change is unlikely. Business is fairly brisk in nearly every line, and prices continue very firm.

A decided tendency for the weakening of the market is the most noteworthy feature in Montreal this week. The opening of navigation has resulted in a decline on certain varieties of pig iron, which are imported each year by steamer. Ingot tin, ingot copper and pig lead have also become weaker, and a decline is noted in each case. Orders are coming in more freely from the people who benefit from the reduced freight rates, caused by the opening of navigation. Prices in general to-day are firmer than the opening of navigation one year ago, and there is a tendency at present to advance all prices. The demand for Canada plates has never been equalled heretofore. Galvanized and black sheets also have a similar demand, and mills are booked to the full capacity for orders requiring early shipments.

Quebec.

Office of HARDWARE AND METAL,
232 McGill street,
Montreal, May 5,1905.,

Pig Iron—The opening of navigation has resulted in the decline of Summerlee, Clarence Nos. 1 and 2, and Cleveland. Prices are very firm, and it would not be a surprise if a general advance occurred within a few days. Our quotations are as follows:

"Disc," No. 1	$16.50	delivered	Montreal.
"Dom.," No. 1	17.50	"	"
Usual difference in price for lower grades.			
Ferrona No. 1	$18 00	delivered	Montreal.
" No. 2	17.50	"	"
" No. 3	16 50	"	"
" No. 4	16.00	"	"
Londonderry	$18.50 to $19.00	"	"
Glengarnock	20.00	"	"
Gartsherrie	19.25	"	"
Carnbroe	18.50	"	"
Carron No. 1	20.00	"	"
" (special)	19.00	"	"
Ayresome No. 1	18.50	"	"
" No. 3	18.00	"	"
Summerlee	18.50 to 19.00	"	"
Clarence No. 1	17.50	"	"
" No. 3	17.00	"	"
No. Cleveland	17.50	"	"

Bar Iron—A brisk trade continues. No change is noted in the price list. Our quotations are as follows: Merchant bar, $1.80; horse-shoe iron, $2.02½; forged iron, $2.05; best refined iron, $2.20 net cash thirty days.

Tool Steel—Orders still continue to arrive, but not of such an appreciative character as previously, and the supposition is that retail dealers have finished stocking up. We quote: Colonial and Black Diamond, 8c to 9c; Sanderson's, 8c to 45c, according to grade; Jessop's, 13c; Jonas & Clover's, 10c to 20c; "Air Hardening," 65c per lb.; Conqueror, 7½c; Conqueror High Speed steel, 60c.

Merchant Steel—The demand has become quieter, until now only a fair demand exists. Prices continue unchanged. Our quotations are as follows: Sleigh shoes, $1.97 1-2: tire, $2.07 1-2; spring, $2.75; toecalk, $2.65; machinery iron finish, $2.10; reeled machinery steel, $2.75; mild, $2 and upwards; rivet, $2.00 and upwards. Net cash thirty days.

Cold Rolled Shafting—Trade on this market is steady. Quotations are as follows: Cold-rolled shafting, 3-4 inch to 17-16, $3.85 per 100 lbs.; inch and a half to 3 inch, $3.50 per 100 lbs.

Canada Plates—Trade is brisk. The demand at present is stronger than it has been for some time. In fact the mills find it difficult to ship all orders on time. Prices are very firm, but no advance is anticipated. We quote the following: 52's, $2.35; 60's, 92.40; 75's, $2.45; full polished, $3.60; galvanized, 52's, $3.90 to $4.00; 60's, $4.15 to $4.25.

Galvanized Iron—Orders continue to arrive freely. Prices continue unchanged. We quote the following: Queen's Head, 28 gauge, $4.15; 26 gauge, $3.90; 22 to 24 gauge, $3.65; 16 to 20 gauge, $3.55; Apollo, 28 gauge, $4; 26 gauge, $3.75; 22 to 24 gauge, $3.75; 16 to 20 gauge, $3.40; Fleur-de-Lis, 28 gauge, $4; 26 gauge, $3.75; 22 to 24 gauge, $3.50; 16 to 20 gauge, $3.40; Comet, 28 gauge, $3.95; 26 gauge, $3.70; 22 to 24 gauge, $3.45; 16 to 20 gauge, $3.40; Bell brand, 28 gauge, $4; Gorbal's "Best Best," 28 gauge, $4.15; "Windmill Best," 28 gauge, $3.95; Sword and Torch, 28 gauge, $4.05, in less than case lots, 25c extra.

Black Sheets—Conditions of trade on this market remain the same. We quote as follows: 28 gauge, $2.15; 26 gauge, $2.10; 22-24 gauge, $2.05; 19-20 gauge, $2.20; 8-10 gauge, $2.30.

Antimony—No change has occurred on this market. We quote from 9 to 9 1-2c.

Sheet Zinc—A good demand is prevalent. The market has become easier, although no change has occurred on the price list. Our quotations are: Case lots, 47; small lots, $7.25.

Tin Plates—A good demand is prevalent on this market. Prices are firm but no advance is anticipated. The outlook is for a good trade. We quote the following: Cokes, $3.75; charcoal, $4.

Ingot Tin—The tone on this market

has become easier, and as a result a decline of one-half cent has occurred. The present price ranges from 33c. to 33 1-2c

Ingot Copper—Some reports tend to show that the market has become easier, while others claim that the conditions on this market are still firm, and at present there is no indication of a change. A decline of 1-4c. is noted, but this in all probability is due more to speculation than to the real condition of the market. Our quotations are: 16c. to 16 1-4c.

Ingot Zinc—No change has occurred in the price list during the past week, but the tone at present indicates an easier market. Orders continue to arrive quite freely. We quote the following: 6½c. to 6 3-4c.

Pig Lead—Lead still continues to weaken in value, and during the past week a decline of 5c. has taken place. Our quotations are as follows: From $3.35 to $3.45, no concessions being obtainable.

Boiler Tubes—A fair demand exists on this market. The outlook is for a steady trade. Prices continue unchanged. We quote the following. British and American tube, 1 1-2 inch, 8 1-2c; 2 inch, 8½c; 2½ inch, 10c; 3 inch, 12¼c; 3½ inch, 16c; 4 inch, 20c; 5 inch, 45c. Price per foot net.

Scrap Metal and Old Material—The opening of navigation is expected to bring forward on the local market a better supply of scrap metals and irons. No noticeable change has occurred on the English market during the past week. The American market is weaker, but owing to the high duty it will not affect the local conditions. Prices continue unchanged. Our quotations are as follows: Heavy copper and wire, 12 3-4c.; light copper, 11 1-2c; heavy red brass, 10 1-2c.; yellow brass, from 8 3-4c. to 9c.; light brass, 6c.; lead, 2 1-2c.; zinc, 3 3-4c.; machinery cast scrap, $14.00; wrought scrap, $14.00; stove-plate scrap, $11.00; No. 1 country rags, 75c. to 90c. per hundred lbs.; old rubbers, 5c.

Ontario.

Office of HARDWARE AND METAL,
10 Front street east.
Toronto, May 5, 1905.

Pig Iron—Trade is rather quiet, although the mills are booked up with orders. A steady demand exists. We quote:

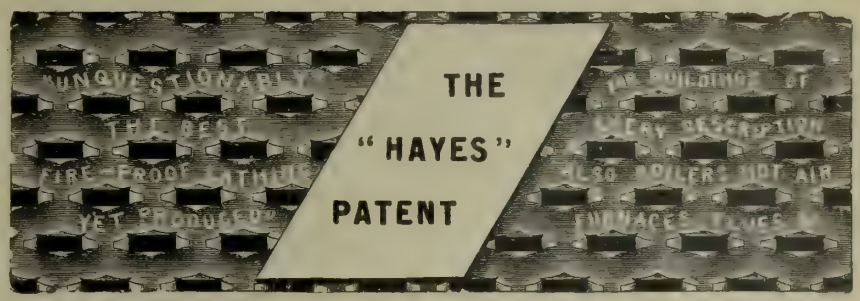
Middlesboro, f.o.b., Toronto	$21 00	$21 50
Hamilton, No. 1, at furnace	18 00	18 50
" No. 2, "	17 50	18 00
Midland, No. 1, "		18 50
" No. 2, "		18 00
Radnor, at furnace		30 00
Londonderry, at furnace	16 50 to	17 00

Bar Iron—Demand is strong and active with prices firm. Quotations continue as follows: $1.90 f.o.b. Toronto, with discount of 2 per cent.; for extras as cut to length, while rolling, 2 feet and over, 10c per 100 lbs.; 1 foot and under 2 feet, 15c; under 1 foot, 20c; over 20 feet, by special agreement according to length and size.

Tin—A good trade is being done. Prices continue unchanged. We quote from 33 to 34c. per lb.

Galvanized Sheets—Firmness is evident, the call for goods being heavy and prices the same.

METAL LATH



Requires less mortar and 90 per cent. less labor than the inferior varieties that have been stretched until they have little strength left.

The "Hayes" is rigid. It makes a perfect job.

It costs less when applied and plastered than any other. We make it.

You can make money selling it.

THE METALLIC ROOFING CO., LIMITED
TORONTO

Tin Plates — Demand continues very active and prices firm.

Canada Plates—No change is reported in prices. An active demand exists.

Brass—Trade is active and prices firm. Discounts are 10 per cent.

Lead—More strength is shown this week, buying being active at firm prices. We still quote: Pig lead, $3.80 per 100 lbs.. and bar lead, $4.80 per 100 lbs.

Zinc Spelter—Trade is reported to be active, the former prices being firm and unchanged. We quote: 7c. per lb. for foreign and 5½ to 5¾c per lb. for domestic.

Copper—The demand for copper ingots continues strong. Prices remain as follows: Ingot copper, 16 1-4c. per lb. and sheet copper, 21c per lb.

Antimony—A fair movement is reported, the market being quite active. No changes are noted in quotations.

Old Material—Prices have weakened, and a decline is looked for in copper lines. We quote: Heavy copper and wire, 13c per lb.; light copper, 11½c per lb.; heavy red brass, 10½c per lb.; heavy yellow brass, 9c per lb.; light brass, 7c per lb.; tea lead, $2.40 per 100 lbs.; heavy lead, $2.60 per 100 lbs.; scrap zinc, 4c per lb.; iron, No. 1 wrought, $9 to $10, No. 2 wrought, $3 to $5; machinery cast scrap, $14; stove plate, $10; malleable and steel, $5; old rubbers, 5c per lb.; country mixed rags, 65c per 100 lbs.

Coal—Hard coal continues in fair demand, an advance of 10c. being noted. New contracts are being booked for both hard and soft coal, and large shipments are expected during the next fortnight. Quotations are as follows: Anthracite in cars at bridges: Grate, $5.10 per gross ton; egg, stove and nut, $5.35 per gross ton; pea, $3 per gross ton.

Standard Hocking, soft coal, in cars, f.o.b. at mines: Lump, $1.35; ¾ inch, $1.25; run of mine, $1.05; nut, 90c; N. P. and S., 60c., coarse slack, 40c; box cars 10 cents per ton additional.

Youghiogheny soft coal in cars, bonded, at the bridges: 1¼ inch, $2.45; ¾ inch, $2.35; mine run, $2.25; slack, $1.90.

For Manitoba Metal Markets see page 36.

LONDON METAL MARKETS.

From Metal Market Report, May 3, 1905.

Pig Iron—Middlesboro No. 3 foundry is quoted at 52s. 10½d, and Scotch warrants at 53s. 6d, making prices as compared with last week unchanged for Middlesboro and unchanged for Scotch warrants.

Tin—Spot tin opened firm at £138 10s., futures at £134 12s. 6d, and after sales of 180 tons of spot and 120 tons of futures closed easy at £138 5s. for spot and £134 10s. for futures, making price as compared with yesterday unchanged on spot and 5s. lower on futures.

Copper—Spot copper opened steady at £65 10s., futures £65 12s. 6d, and after sales of 150 tons of spot and 200 tons of futures closed quiet at £65 10s. for spot and £65 12s. 6d for futures, making price as compared with yesterday unchanged on spot and unchanged on futures.

Lead—The market closed at £12 11s. 3d, making prices as compared with yesterday unchanged.

Spelter—The market closed at £23 12s. 6d, making price as compared with yesterday 2s. 6d higher.

H. T. Andrews, plumber, reports that work has opened early in Orillia, and tenders are being asked for on many jobs. A new $17.000 Y.M.C.A. building is proposed. The new James Bay Railroad, for which the town is asked to vote $30,000 bonus, will also give the town a lift. Mr. Andrews will build new premises this Spring.

Stephens'
TRANSPARENT LIQUID WOOD FILLER

A perfect substitute for Shellac, as it not only fills the pores of the wood, but makes a surface equal to one coat of Hard Oil Finish. It is intended for Maple, Sycamore, B.C. Fir, Pine, Poplar, Whitewood, and other close-grained woods. This Filler is Transparent, it will not crack nor peel off, and does not require sandpapering. One coat of Filler and one coat of Extra Light Hard Oil are equal to ordinary three-coat work.

Put up in Gallon, Half-Gallon and Quart Cans only.

MANUFACTURED BY
G. F. STEPHENS & CO., Limited
PAINT AND COLOR MAKERS
WINNIPEG, - CANADA

HARDWARE CONDITIONS IN MANITOBA.

(Market quotations corrected by telegraph up till 12 a.m. Friday, May 5, 1905.)

Office of HARDWARE AND METAL
Room 511 Union Bank Building,
Winnipeg, Man.

ANNOUNCEMENT is made in the current issue of the Manitoba Gazette of the incorporation of the Pease-Waldon Co., Limited, under the laws of the Province of Manitoba. John Townsend Sheridan, Wilbur Gleason Jones, John Lincoln Ross and Jos. Warren Johnson, manufacturers, all of Toronto, and Thomas Leslie Waldon, of Winnipeg, are incorporated as the Pease-Waldon Co., Limited, for the purpose of manufacturing and dealing in iron and other metals and goods, in wood and metal machinery, plumbers' and steamfitters' supplies, metal and enamelware heating apparatus and hardware specialties with a total capital stock of $15,000.

* * *

Work has been commenced on the foundations of the new warehouse of the Marshall-Wells Company.

* * *

Business is very active, all classes of builders' hardware and building supplies being in especially active demand. There are one or two price changes of special note this week. Wire nails have been reduced 15 cents per keg owing to competition, but cut nails are nominally unchanged. Reductions will also be noted in building paper quotations. Linseed oil has been advanced. Turpentine is steady at the old figure. Glass is very firmly maintained at figures quoted.

* * *

Screen Wire Cloth—Sorting orders are reported numerous. Price is $1.55 per 100 square feet.

Poultry Netting—In brisk demand. For the 2-inch mesh in No. 19 gauge wire, prices are as follows:

24-inch roll, per roll	$1 20
30 " "	1 50
36 " "	1 80
48 " "	2 40
60 " "	3 00
72 " "	3 60

Wire—Business continues very brisk. Prices are steady. We quote:

Barbed wire, 100 lb.	$2 85
Plain galvanized.....6 to 8	3 39
" 9 2 50	2 90
Plain galvanized.....10	3 50
" 12	3 10
" 13	3 20
" 14	3 90
" 15	4 45
" 16	4 60
Plain twist	2 85
Staples	3 35
Oiled annealed wire.....10	2 96
" 11	3 02
" 12	3 10
" 13	3 20
" 14	3 30
" 15	3 45

Annealed wires (unoiled) 10c. less.

Horseshoes—Trade is fairly active for the season. Prices are:

Horseshoes, iron, No. 0 to No 1	$4 55
No. 2 and larger	4 30
Snow shoes, No. 0 to No. 1	4 80
No 2 and larger	4 55
Steel, No. 0 to No. 1	4 65
No. 2 and larger	4 40

Horsenails — Discounts continue as follows: "C" brand 40, 10 and 7 1-2 per cent., "M" brand and other brands 55 and 60 per cent. Add 15c. per box.

Wire Nails—Owing to competition there has been a reduction of 15 cents per keg. Base price is now $2.85.

Cut Nails—Base price is unchanged We quote: $3.00 per keg.

Screws—Discounts continue as follows:

Screws, flat head, iron, bright	85 and 10 p.c.
Round " "	80 p.c.
Flat " brass	75 and 10 p.c.
Round " "	70 and 10 p.c.
Coach	70 p.c.

Nuts and Bolts—Business continues very active. Discounts are as follows:

Bolts, carriage, ⅜ or smaller	60 and 5 p.c.
" 7-16 and up	55 p.c.
Bolts, machine, ⅜ and under	55 and 5 p.c.
" 7-16 and over	55 p.c.
Bolts, tire	65 p.c.
Bolt ends	55 p.c.
Sleigh shoe bolts	65 and 10 p.c.
Machine screws	70 p.c.
Plough bolts	55 p.c.
Square nuts, case lots	3c. discount.
" " small lots	2½c. "
Hex " case lots	3c. "
" " smaller lots	2½c. "

Rivets—Discounts continue as follows:

Rivets, iron	60 and 10 p.c.
Copper, No. 8	29½
" No. 12	33

Coil Chain—We quote as before:

Coil chain, 3-16 inch	9.25
" ¼ inch	7.25
" 5-16 inch	5.20
" ⅜ inch	4.60
" 7-16 inch	4.45
" ½ inch	4.30
" ⅝ inch	4.10
" ¾ inch	4.00

Shovels—Discounts on spades and shovels continue 40 and 5 per cent.

Harvest Tools — Discount 60 per cent.

Axe Handles—Trade is quiet, and no special activity is expected at present. We quote:

Axe handles, turned, s.g. hickory, doz.	$3 15
No. 1	1 90
No. 2	1 60
Octagon extra	2 30
No. 1	1 60

Axes—We quote:

Axes, chopping	$ 6 75 to 12 00
" double bitts	12 00 to 18 00

Files—We again quote as follows:

"Arcade"	70 and 10 p.c.
"Black Diamond"	60 p.c.
"Nicholson's"	62½ p.c.

Building Paper — Reductions have been made in plain "Anchor" and plain pure fibre building papers. Business is active. We quote:

Anchor, plain	55c.
" tarred	70c
Pure fibre, plain	60c.
" " tarred	80c.

Ammunition, Etc.—We again quote:

Ammunition, cartridges, Dominion R.F.	50 and 5 p.c.
Dominion, C.F., pistol	30 p.c.
" military	15 p.c.
Ammunition, cartridges, American R.F.	33⅓ p.c.
C.F. pistol	5 p.c.
C.F. military	10 p.c. advance.
Loaded shells:	
Eley's and Kynoch's soft, 12 gauge	
black	15 00
chilled, 12 gauge	16 00
soft, 10 gauge	18 00
chilled, 10 gauge	19 00
Shot, Ordinary, per 100 lb	6 25
Chilled	6 75
Powder, F.F., keg, Hamilton	4 75
F.F.G., Dupont's	5 00

Tinware, Etc.—We quote again as follows:

Tinware, pressed, retinned	70 and 10 p.c.
" " plain	75 and 2½ p.c.
" pieced	30 p.c.
Japanned ware	37½ p.c.
Enamelled ware, white	45 p.c.
" Famous	50 p.c
" Imperial	50 and 10 p.c.

Cordage—Prices of rope are unchanged. The binder twine situation is still unsettled. We quote:

Rope, sisal, 7-16 and larger, basis	11 25
Manila, 7-16 and larger, basis	15 25
Lathyarn	11 25

Solder—Quoted at 21c.

Bluestone—In fairly active demand now at $5.75 per cwt.

Iron and Steel—Prices are steady and unchanged. We quote:

Bar iron (basis)	2 50
Swedish iron (basis)	4 75
Sleigh shoe steel	2 65
Spring steel	3 00
Machinery steel	3 50
Tool steel, Black Diamond, 100 lb	9 50
Jessop	13 00

Black Sheets—Still in active demand at steady prices. Quotations are:

Black sheets, 10 to 16 gauge, 100 lb	3 50
18 to 22 gauge	3 75
24 gauge	3 90
26 gauge	4 00
28 gauge	4 10

Galvanized Iron—We quote as last week:

Apollo, 16 gauge	4 00
18 and 20 gauge	4 00
22 and 24 gauge	4 25
26 gauge	4 25
28 gauge	4 50
30 gauge or 10¾ oz	4 75
Queen's Head, 24 gauge	4 25
26 gauge	4 50
28 "	4 75

Tinplates—Prices are:

Tinplate, IC charcoal, 20 x 28, box	9 50
" IX "	11 50
" IXX "	13 50
Canada plate, 18 x 21, 18 x 24	3 25
Canada plate, 20 x 28	3 50
Canada plate, full polished	4 00

Sheet Zinc—Cask lots are quoted at $8.25 per 100 lbs, and broken lots at $8.75.

Pig Lead—Quoted at $4.50 per 100 lbs.

Iron Pipe—Trade in the city is very active. We quote:

Black iron pipe, ¼ inch	....
" ⅜ "	2 45
" ½ "	2 65
" ¾ "	3 00
" ⅞ "	3 80
" 1 "	5 50
" 1¼ "	7 45
" 1½ "	8 95
" 2 "	12 30

PROMPT SHIPMENTS

Nicholson

Our Dominion Works are now producing 600 dozen Files and Rasps every working day.

We carry a large stock for you and are enabled to fill orders quickly. Manufactured in Canada.

FOR STORAGE IN WINNIPEG

Handling and reshipping of goods. Brick warehouse with track facilities

MACKENZIE BROS. WRITE 244 PRINCESS ST. OR P.O. BOX 579 WINNIPEG.

PURE MIXED PAINTS

are what the painter wants and will have. If you cannot supply him with them someone else will; nor can you afford to lose his trade by experimenting with something (just as good), for it cannot be had. We also have a large stock of Dry Colors, Oils, etc.

THE WINNIPEG PAINT AND GLASS CO., LIMITED
WINNIPEG, CANADA



With our new plant and special facilities for quick work we can

SAVE MONEY

for you with our low prices on any sheet metal goods required in connection with your contracts. We are doing work for some of the largest buildings in Canada and solicit enquiries for

Finials,
Cornices,
Skylights, Etc.

Have you our new catalogues and price lists on file? If not, ask for them.

Metal Shingle & Siding Co. Limited
Preston, Ont.

Alberta Agency, Ellis & Gregson, Calgary.
Northwest Agency, Clare & Brockest, Winnipeg.
Montreal Agency, J. B. Dagenais, 953 St. James St.

CONDENSED OR "WANT" ADVERTISEMENTS.

YEARLY CONTRACT RATES.

100 words each insertion,	1 year		$30 00
" " "	6 months		17 00
" " "	3 months		10 00
50 " "	1 year		17 00
" " "	6 months		10 00
25 " "	1 year		10 00

MECHANICS WANTED.

YOUNG men who have had some experience at general tinsmithing to learn cornice work and erect metal ceilings. Good openings for several men who are active and quick to learn. State age and experience. Box 239, Hardware and Metal, Toronto. (18)

MANUFACTURERS' AGENT WANTED

A BIRMINGHAM house, manufacturing electrical fittings and electroliers of low price grade, are seeking an agent to sell for them in Canada. Box 34, Hardware and Metal, Montreal, or Box A, Hardware and Metal, 88 Fleet St., London, Eng.

PARTNER WANTED.

WANTED—A partner in a tin and galvanized business, a young married man with small capital required. Box 244, HARDWARE AND METAL, Toronto. (18)

BUSINESS WANTED.

WANTED to purchase—Good hardware business in live town; stock to go $5,000 to 8,000. Box 240 HARDWARE AND METAL, Montreal. (18)

TRAVELER WANTED.

WANTED—First-class traveler, with thorough knowledge of paint and glass business, to represent jobbing and manufacturing house in Manitoba and Northwest Territory, headquarters in Winnipeg. Must be of good address and strictly temperate. A good position for a good man; none other need apply. Address Box 242, HARDWARE AND METAL, Toronto. (18)

BUSINESS CHANCES.

THE LOCATORS—W. B. Herbert, General Manager. The leading business brokers in Canada, 62 and 63 Merchants Bank Building, Winnipeg.

HARDWARE and Implement business in one of the largest towns in the Province of Manitoba. Well established. Annual turnover $30,000; big profits. Stock $13,000. One-third cash only needed. Apply Locators, Winnipeg.

IMPLEMENT business, good town on Pembina Branch. Annual turnover $20,000. Net profit over $2,000; rapidly growing business; $5,200 cash. Locators, Winnipeg.

SITUATION WANTED.

BY a young man, with 14 months experience at tinsmithing, a position where he would get experience in roofing, eavetroughing, furnace work, etc.; can furnish good testimonials and references; no bad habits. GORDON B. PIERCE, Delta, Ontario. (19)

Petroleum—No change in price. We quote:

Silver Star, per gal	20½c.
Sunlight "	21½c.
Eocene "	23½c.
Pennoline "	24½c.
Crystal Spray "	23½c.
Silver Light	21½c.

(In barrels f.o.b. Winnipeg.)

Paris Green—Prices as quoted last week still obtain. We quote:

English Paris Green—Petroleum barrels, 14 1-4c.; arsenic kegs, 14 1-2c.; 50 and 100-lb drums, 15c.; 25-lb drums, 15 1-2c.; 1-lb tins, 17c.; 1-2-lb tins, 19c.; 1-lb. cardboard boxes, 16c.; 1-2-lb ditto, 18c. Terms 2 per cent. off for cash in 30 days; 90 days net.

Canadian Paris Green—50-lb drums, 17c.; bulk, 18c.; in 1-lb packages, 20 cents.

Paints and Oils—Linseed oil has been advanced again. Turpentine is steady at the old figure. General business is very active. We quote:

White lead (pure)	$5 00 to $5 50
Bladder putty, in bbls	0 02½
" " in kegs	0 02¾
Turpentine, pure, in barrels	$ 0 84
Less than barrel lots	0 89
Linseed oil, raw	0 60
Boiled	0 63

Window Glass — Firmly held at prices quoted. Supplies are none too large. We quote:

16-oz. O.G., single, in 50-ft. boxes—	
16 to 25 united inches	$2.25
26 to 40 "	2.50
16-oz. O.G., single, in 100-ft. cases—	
16 to 25 united inches	4.00
26 to 40 "	4.25
41 to 50 "	4.75
51 to 60 "	5.25
61 to 70 "	5.75
21-oz. C.S., double, in 100-ft. cases—	6.30
26 to 40 united inches	7.35
41 to 50 "	8.40
51 to 60 "	9.45
61 to 70 "	10.50
71 to 80 "	11.55
81 to 85 "	12.60
86 to 90 "	14.75
91 to 95 "	17.30
6 to 100 "	

TRADE CONDITIONS IN BRITISH COLUMBIA.

Special Correspondence of HARDWARE AND METAL.

Vancouver, B.C., April 27, 1905.

THROUGH the medium of the Vancouver Board of Trade, an effort is being made to secure a revision of the Vancouver City Council's decision to grant nothing toward the expenses of the Dominion Fair at New Westminster this year. A joint meeting of the special committee from the board of trade and members of the city council conferred yesterday with representatives from New Westminster, and the very probable result will be that the Terminal City will join in the heavy cost of the exhibition from which she, no doubt, reaps greater advantages direct than New Westminster does.

Messrs. H. T. Lockyer, manager of the Hudson's Bay Co., W. H. Malkin, Wm. Baird, A. B. Erskine, J. G. Scott and Walter H. Ker represented the board of trade; Ald. Bethune and Ald. Halse, the city council, and Manager Keary, of the Royal City Exhibition Association, G. D. Brymner and T. J. Trapp, New Westminster. Manager Keary, who is also mayor of New Westminster, detailed the efforts that had been put forth, and were being put forth to reach Eastern Canada, and more especially the Northwest and Manitoba. He submitted forecast estimates the fair management had made when they first received the appropriation for the Dominion Fair. That amount was $50,000. The Provincial Government has appropriated $8,000, New Westminster city $10,000, the Rural Municipality of Burnaby $250, New Westminster merchants $3,000, Vancouver city and merchants had been counted on for $6,000, while from other sources sufficient was expected and promised to make up a total of $110,000.

Mr. H. T. Lockyer, speaking for the board of trade, expressed surprise that the city and merchants of New Westminster should contribute $13,000, while Vancouver was only looked to for $6,000. He offered to head a canvass of the business portion of the city which should show conclusively to the city council that the merchants of Vancouver were very strong in their support of the Dominion Exhibition at New Westminster.

Mr. G. D. Brymner, from New Westminster, suggested that the Vancouver City Council and the board of trade should both appoint representatives on the executive board of the exhibition, while Manager Keary suggested than an accommodation bureau should be organized in Vancouver, the same as had been done in New Westminster to aid strangers seeking information while visiting the exhibition. The matter will come before the city council in a few days.

* * *

At last, after two years of constant work, with day and night shifts, the work prosecuted from each side, the great tunnel of the Vancouver Power Co. at Lake Beautiful has been completed. Early yesterday morning, in fact, before the changing of the night shift, a hole was pierced through the remaining ten feet of wall which separated the two portions of the tunnel. It was driven from the Lake Coquitlam end, for it was decided to withdraw the crew from that end, and in order to satisfy themselves that the work was so close to completion that one crew was sufficient to clear the opening a long drill was driven into the face, exactly in the centre of the tunnel. To prove how well had been carried out the engineering work which had surveyed the line of the tunnel through 2½ miles of a solid granite mountain, the drill pierced through the face on the Lake Beautiful side almost as exactly in the centre as it had been driven from the other face.

To provide water sufficient for gener-

FOR SALE

1 Pair of Scales (capacity 2,000 lbs.)

Apply Box 238

Hardware and Metal

10 FRONT STREET E., TORONTO.

ating electric power for the B. C. Electric Railway and for the lighting of Vancouver, as well as for all requirements for electric power in the city, the work of connecting the two lakes was begun nearly two years ago. Two years, and nearly three months' time was occupied in drilling, and the average rate has been 15 or 16 feet per day. The total length of the bore is 12,775 feet, or nearly 2½ miles. The tunnel is 9 x 9 feet with rounded corners. Over 200 tons of dynamite, gelatine and blasting gelatine have been used in the work.

The power available when the water is turned on is estimated to be 30,000 horse-power, the present requirements of the electric system being between 6,000 and 7,000 h.p. For some time the generating station has been completed at sea-water level on Burrard Inlet, below the outlet of Lake Beautiful, and the water from that body has been used to generate a portion of the power required for the system. Now, the whole plant will operate under the water-power. To the City of Vancouver the supplying of such a large electric force means a great deal in possible development of industries which will find it economical to use electricity.

* * *

The city council of Vancouver is considering a scheme to provide a high-level water service, for the southern and higher portions of the city, as well as a salt water main extending along the waterfront and intended for fire protection only, the power to be provided by connection with pumps worked by the engines of the many large saw mills on the harbor front.

* * *

Journeymen plumbers in Vancouver threaten to strike, as they have not been granted an increase of wages demanded recently. They are getting $4 per day now, and have asked $4.80 for an 8-hour day. The ultimatum is that they all lay down their tools on May 1 unless they get the raise. The master plumbers say they expect to have the matter adjusted without a strike, but do not indicate that they intend granting the increase.

* * *

The City of Cranbrook, in Southeast Kootenay, called into existence less than ten years ago by the commencement of the Crow's Nest Pass Railway, is to have a Dominion public building, post office, and other Government offices at a cost of $70,000. Grey granite from Sirdar, a point near by, is likely to be the material used.

* * *

Last week the Trail smelter received over 3,500 tons of gold-copper ore from the Rossland camp, besides large consignments from all over the country. Manager Aldridge announces that the capacity of the lead refinery which was established last year is to be trebled so large is the demand for refined silver and pig lead, most of which is sent to the Orient.

* * *

The Crofton smelter, on Vancouver Island, erected for the handling of ores from Mt. Sicker camp by the owners of the Lenora mine, has been sold to the Britannia Copper Syndicate, which owns the Britannia mine on Howe Sound, near Vancouver. This mine is being rapidly put in shape to produce, and the ore will be sent to the Crofton smelter for reduction.

* * *

News from the north indicates that fine, warm weather is speeding the working of the big dumps of gravel accumulated as a result of the Winter work on the creeks. Sluicing is going ahead very rapidly and estimates of the gold production are being made. It is said the total for Winter, and prospective for the Summer, will be about ten million dollars. Big hydraulic plants are to start this Summer.

TRADE CONDITIONS IN NOVA SCOTIA.

Halifax, May 2, 1905.

HARDWARE trade continues extremely good and is improving every week, and dealers generally express themselves as highly pleased with the results of trade and the expectation of a good trade in most lines during the Summer months. Conditions in the country have also greatly improved and retailers in the smaller centres are buying more freely. It is also reported that the payments due this month will be more generally met than for the last two or three months. Monetary conditions in the country seem to have greatly improved and as a consequence conditions of trade in this, as well as in other lines, are improving.

PFLUEGER'S
Fishing Tackle

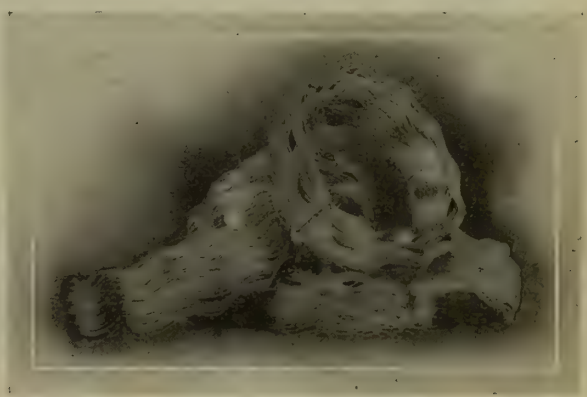
Hooks, Flies, Trolls, Spinners, Phantoms, Reels, Furnished Lines. Everything in Fishing Tackle.



NOTICE--Free to Any Dealer in Sporting Goods, Sent Express Prepaid, 155-Page Illustrated Catalogue No. F23, Metal Fish Sign and Window Transparency in 8-Color Lithograph.

The Enterprise Mfg. Co.
AKRON, Ohio

Prompt Shipments



HIGH-GRADE
Coiled Spring and Plain or Barb Wire
From Stock, London or Cleveland

LONDON FENCE MACHINE CO., Ltd.
LONDON | CLEVELAND

The retail trade in the city is extremely good.

* * *

Fishermen's outfitting and supplies for the lobster canners is still good, though the orders are not as heavy as earlier in the season. This is the retailers' period in these lines. The weather has been good for fishing, however, and there has not been so much wear and tear in gear, and repairing is consequently light.

* * *

The situations in turpentine and linseed oil are both very uncertain at present. High prices were foreshadowed some time ago, but the price has been sagging and dealers are unable to give definite quotations. The new crop of turpentine is now due in the southern markets and indications are that a decline is evident. With linseed oil the tendency is in the opposite direction and the price is steadily advancing on the other side, which governs prices here. Old quotations here which were 47c. for raw and 50c. for boiled, have been withdrawn, in barrel lots. It is probable that new prices will shortly be fixed.

* * *

The demand for builders' materials is good and some supplies, such as glass and cement, are running short, but the steamer Norden from Hamburg is on the way here with full supplies to carry dealers through the season. There has been quite a demand also for plumbers' materials. Among these, lead pipe has declined, and is quoted at $4.66. Pig lead is firm and the quotations are $3.75 to $4.00.

* * *

Reports from Sydney state that the organization of the wire nail factory is well under way and that their plant will be in operation before many months. This will give a home market for a considerable output from the Sydney Steel Works. Interest among the hardware trade in the latter industry has been greatly stimulated lately by the optimistic opinions expressed by Vice-President Nicholls at the late meeting of the directors at Montreal. With the blowing in of two or three more blast furnaces and the opening of the rail mill at an early date, another building boom is expected at Sydney as a very large number of new men will have to be taken on—estimated at well up to one thousand—for whom accommodations will have to be provided.

UNITED STATES METAL MARKET.

Advance proofs furnished HARDWARE AND METAL by The Iron Age, May 4, 1905.

CONSUMPTION of iron and steel continues at an unprecedented rate. Reports from manufacturers in every branch show that the trade is still at high pressure in making deliveries. An indication of what is now being done is given by the United States Steel Corporation. This corporation has a total of 91 blast furnaces, and of these only two furnaces, used for making pig iron, are now not in operation. Ordinarily 10 per cent. of this capacity should be laid off for repairs, and therefore this condition of activity is far better than is to be expected. Preparations were made last year for just such a campaign as this by putting all the corporation's furnaces in good shape, and it is now reaping the benefit of its excellent management. It may be seen from this state of affairs that with the crowded condition of its finishing departments if accidents should happen at any of its furnaces the corporation would immediately be in the market to purchase additional supplies of pig iron.

The demand for steel billets is still so strong that premiums continue to be quoted above the official price. A sale of 10,000 tons of billets was made this week by a Pittsburg company to an eastern steel plant at the going premium to meet a deficiency in its own supply.

The structural trade is coming to the front with an increased activity. The American Bridge Co. reached its expected total of 70,000 tons of new orders in April and reports a very large amount of new business in sight. Building trades are coming up to expectations of seasonable activity and a great deal of material will be required in that direction, as well as for railroad and highway bridges. The reports from this branch indicate that before the Summer has far advanced trouble will be experienced in securing deliveries by belated buyers.

While the steel trade and closely related branches of the iron trade are thus in strong condition, the foundry pig iron trade is somewhat easier but cannot be considered weak. The merchant furnaces have booked heavily for future delivery, and the demand is now comparatively light. Nevertheless, the market is far from stagnant. Commission merchants report a daily run of business in fair volume.

The flurry in Wall Street during the past week had possibly some effect on the sentiment of many consumers, as liquidation in securities was for a time so severe as to cause apprehension of financial troubles. If the decline in securities had continued, general business would unquestionably have been affected. This adverse influence, however, appears to have safely passed.

Bar iron is lower in Chicago as a result of the recent heavy reduction in prices of scrap iron. The price of bar iron has been completely out of line with steel bars and the bar iron manufacturers are anxious to reduce their costs and their selling price so as to be able to secure their share of the bar trade.

Old material is again lower in all the important consuming centres.

MINING NOTES.

Anthracite coal from the Banff mines will be delivered in Winnipeg after June 1.

* *

The total output of the Boundary Mines in B. C., for the first quarter in 1905, amounted to over 230,000 tons, valued at over $1,000,000.

* * *

A combine of all the big mines at Rossland has been accomplished. The amalgamation will result in a saving of over $1 per ton in handling ores.

* * *

One of the greatest mining districts in Canada is to be opened up in Southeast Kootenay by the Kootenay Central Railway, which will be built this year.

* * *

The United Nickel Co. are asking the Ontario Government for power to take over the Rolling and Huronian companies, which control 3,750 square miles of territory near Sudbury. If granted this will give them control of practically all the nickel industry in New Ontario, with the exception of deposits along the Temiskaming Railway.

* * *

The Pacific Coast Steel Co., which is establishing a $500,000 pig iron plant at Seattle, has purchased several iron mines, one being on Texada Island, B.C.

* * *

The shareholders of the Dominion Coal Co. have ratified the plan for the reorganization of the company's finances, authorizing an issue of $7,000,000 of 35-year 5 per cent. gold bonds, five millions of which will be issued almost immediately.

* * *

The Dominion Coal Co. has added 150 new steel cars to its rolling stock. The new cars are the largest in use on any railway in Canada, having a capacity of fifty tons, or five tons greater than the largest previously in use by the company. These new cars will be able to hold a half day's output of all the collieries of the company.

* * *

What is supposed to be a rich discovery of iron ore has been made at Riding Mountain, Manitoba, and is causing much local excitement. A sample forwarded to Montreal has proved most valuable if in sufficient quantity. As soon as possible a shaft is to be put down by parties interested. The surface veins indicate a large bed of ore not far below the ground.

* * *

The two blast furnaces of the Algoma Steel Co. (Lake Superior Corporation) at Sault Ste. Marie, Ont., have been making good outputs. The coke furnace, which is 80 ft. x 15½ ft. and rated at 250 tons a day, produced 306 tons in 24 hours one day last week. The charcoal furnace has an output of 130 to 140 tons a day. In the rail mill a recent record was 649 tons in 24 hours. The rails now being rolled for the Canadian Pacific Railroad conform to a strict specification both as to chemical and physical requirements.

* * *

A return of $38,000 from twenty tons of ore out of the silver and cobalt mines of Temiskaming was the story told by Willet G. Miller, the Provincial Geologist, before the Canadian Institute in a recent address. The discovery of the ore was made during the construction of the Temiskaming & Northern Ontario Railway in 1903. An interesting fact about the new find is that no plant is necessary to get out the ore, since it is near the surface. Cobalt is largely used in staining glass, especially for producing a deep blue. It is also used for coloring pottery and porcelain. Although similar to nickel, and fit for use in steel, the same as nickel, its price is five times as great, and it is, therefore, not used for that purpose.

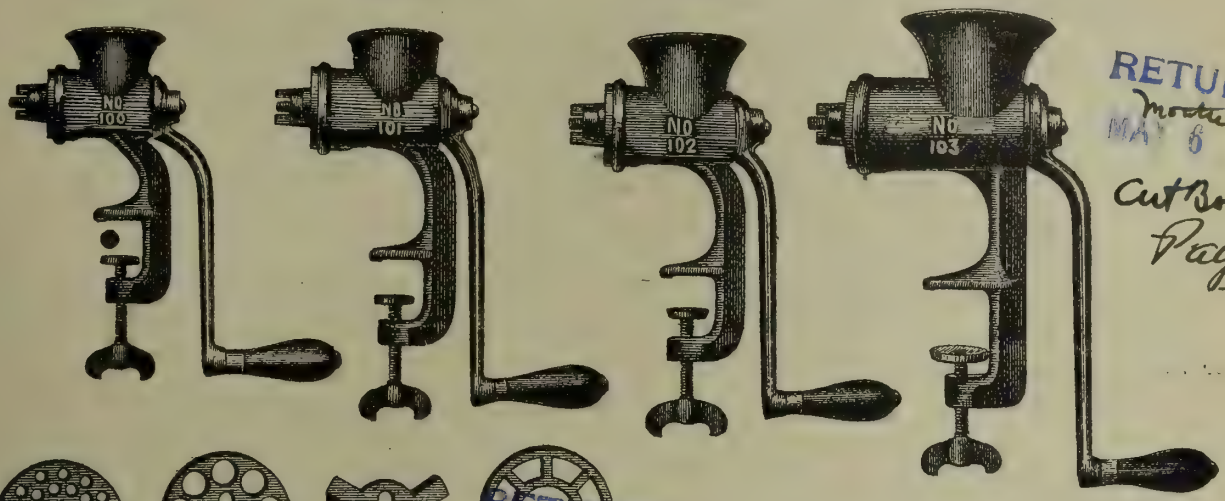
A SUCCESSFUL COMPANY.

The Canadian Buffalo Forge Co. are now manufacturing in Montreal a line of blacksmith tools of similar design to those manufactured by an American firm of the same name. In the equipment of their factory they have installed the most moderm machinery throughout. This is the first firm to mannfacture geared hand blowers and armour plate punches and shears in Canada.

The A 1 Tinned Food Choppers A★1 TRADE MARK

IN 4 SIZES

No. 100 No. 101 No. 102 No. 103





The best finished and most attractive chopper in the market. 4 steel reversible plates.

RETURNED Montreal Office MAY 6 1905 Cut Books 74 Page 53 Number

RETURNED MAY 6 1905 Montreal Office Cut Book 74 Page 1-6.

F. W. LAMPLOUGH & CO., Montreal

— ALUMINUM —
THREE-GALLON TEA POT

YOU WANT THE BEST



ALSO MADE IN
6, 9 AND 12 CUP SIZES

WE MAKE THE BEST

Aluminum utensils take and retain the heat better than any other kind.

Aluminum does not rust, no danger of poison, does not taste the coffee, and can be set on the stove without any detrimental effects to either the coffee or the pot.

MADE BY

CANADIAN ALUMINUM WORKS, LIMITED

Catalogue on Application. CHAMBLY CANTON, QUE.

PAINT, OIL AND BRUSH TRADES

Glass-Cutting in Canada.

FIVE years ago the art of glass-cutting was practically unknown in Canada; since then, however, the manufacturers have brought it to the attention of the trade very forcibly and, consequently, cut glass has found its way into a very large number of stores. About six thousand glass-cutters are employed in the United States at the present time, where the industry has been carried on for a period of twenty-five years. Only forty-five men are employed at it in Canada, but most of these came from such shops as Dorflinger's, Libby's and Hawkes,' and, consequently, can turn out an article as good or better than any of these firms. It has been a hard matter to convince the public that Canadian cut glass is superior to American, as it is not so well established here, and customers, even yet, are occasionally inclined to favor an article marked "Imported."

The only known firms manufacturing cut glass in Canada are Gowans, Kent & Co. and Roden Bros., both of Toronto, and Henry Birk & Son, of Montreal. The glass used for cutting is specially prepared, being composed of very fine sand, from the Berkshire Hills of Massachusetts, and red lead, and is very soft and heavy, as the contents would indicate. Ordinary glass could not be cut as it is too hard and brittle. The stones used for cutting are imported from Scotland. In order that the sparkle and brilliancy may be preserved, all that is necessary is a little care exercised when cleaning. Never use cold or hot water, as the glass is very susceptible to either of these. A very profitable hour could be spent in a cutting shop where you can see the workmen turning blanks into pieces of rich cut glass.

Natural Gas at Medicine Hat.

THE natural gas flow at Medicine Hat is being utilized by the Canadian Pacific Railroad, and elaborate plans have been prepared to install a plant in the company's shops at this point. Three regulators are to be used in connection with the well. One will reduce the rock pressure, which at present stands at 555 pounds, to 100 pounds. Another is capable of reducing the pressure 100 pounds to 8 ounces, if necessary. though a pressure of two pounds will be about the standard for use in the shops and roundhouse. The third regulator will be used in connection with the lights. The well-house is heated by a steam coil supplied from the boiler house. Two mains, two and a half and one inch respectively in size, are connected with the well. The latter conveys the supply of gas for lighting and the larger main is necessary for the larger supply required in the workshops and for firing up the engines. The gas is of incalculable value for the latter work. One layer of slabs is placed across bottom gratings of the locomotive to prevent the coal from sifting out and the gas is carried beneath by means of a rubber hose. Ignition of the coal by this method is almost immediate and occasions a great saving of time, trouble and fuel.

The Selection of Colors.

The combinations of colors used on a house are of considerable moment and should not be decided upon hurriedly. A single trimming not in harmony will often make a house an aggravation. Several paint manufacturers, appreciating the value of this feature, have an organized department of artists and architects whose sole duty is to specify good color combinations. Local dealers report that it is a common practice now for paint buyers to give them a photo or drawing of their houses to submit to paint makers for color specifications. Another point in connection with selecting colors is that an early decision will enable the dealer to order any special colors he may not regularly carry in stock.

To Make Strong Glue.

To make a special glue of great tensile strength from 1 to 20 per cent. of zinc oxide is added to the hot solution of glue, and after well agitating the liquor is passed through a sieve and cooled in moulds. It is claimed that the resulting glue, which is white and opaque, has a tensile breaking strength 20 per cent. greater than that of ordinary glue, while size prepared from it has a resistance to moisture 30 per cent. greater than ordinary glue size.

CHIJAP FLOOR LAC



for finishing floors or wood working of any kind where a durable hard brilliant finish is required. In six transparent stain shades and four solid colors. It wears on the job, not off.

Ready sale with good profit for the dealer.

MANUFACTURED ONLY BY

The Imperial Varnish & Color Co. LIMITED,

TORONTO, ONTARIO, CANADA.

TO THE VARNISH BUYER

the most serious considerations are quality, reliability and uniformity, and these qualifications are of special importance to the dealer who is trying to build up a permanent varnish trade.

Berry Brothers' label or brand may be safely relied upon as ensuring the above conditions.

Our varnishes are the safest goods to handle and the surest and most reliable goods to use.

BERRY BROTHERS, Limited

VARNISH MANUFACTURERS

WALKERVILLE, ONT.

Write for our 100 page illustrated catalogue. Every dealer should have a copy for reference.

McArthur, Corneille & Co.

MONTREAL

Glue and Gelatine

An extensive assortment, to suit all requirements.
WILL BE PLEASED TO SUBMIT SAMPLES AND PRICES

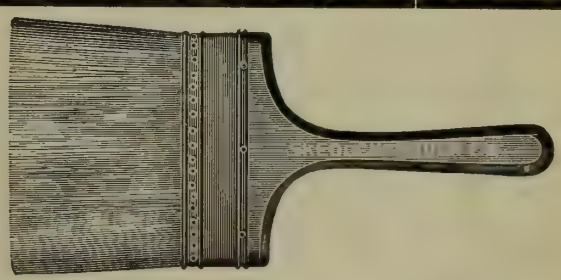
MANUFACTURERS AND IMPORTERS OF . . .

White Lead, Oils and Colors, Prepared Paints, Window Glass, Varnishes, Etc.

SELLING AGENTS IN CANADA

For the GENUINE
Imperial French Green
of JOHN LUCAS & CO., PHILADELPHIA.

And CELEBRATED
English Varnishes
of CHAS. TURNER & SON, LONDON.



We Could Tell

You a great deal about how we make our brushes but you would forget it. What we think you can and ought to remember is that

Skedden's Brushes

are the acme of brush construction. They are our messengers, bearing our name, a name that we want to stand for the best goods.

Have You our Catalogue?

The Skedden Brush Co., Limited, Hamilton

Toronto Office—176 Victoria St. 'Phone Main 3358. O. VICKERY, Agent.

Please mention HARDWARE AND METAL when writing.

"This is the Time Paint Flies!"

ANCHOR BRAND
H&P
REGISTERED
TRADE MARK

Be prepared for the demand and order at once the

OLD RELIABLE

"ANCHOR LIQUID HOUSE PAINTS"

They are the outcome of **30 years** manufacturing experience, and also the only **Liquid Paints** made with the **FAMOUS BRANDRAM'S B.B. GENUINE WHITE LEAD,** the **World's Standard** for the last **187 Years.** They have stood the test! A good example of the SURVIVAL OF THE FITTEST!

BRANDRAM BROS & CO
BRANDRAM'S B.B. WHITE LEAD
REGISTERED TRADE MARK
MANUFACTURERS LONDON ENGLAND

Manufactured by

HENDERSON & POTTS, Limited
HALIFAX and ST. JOHN

HENDERSON & POTTS CO., LIMITED
MONTREAL and WINNIPEG

Paint and Oil Markets

Quebec.

Office of HARDWARE AND METAL,
232 McGill Street,
Montreal, May 4, 1905.

MIXED paints are being sold in large quantities by the jobbers, paris green being also in more active demand. Prices are firm and unchanged. The market in turpentine shows little change, prices holding firm in the south. Linseed oil holds very firm with another advance probable. During the week a slight fall was recorded in England, but it is not considered to be a permanent condition.

Canadian Paris Green—No change is noted in the price list. We quote as follows: Barrels, 15 1-4c.; arsenic kegs, 15c.; 50 and 100 lb. drums, 16c.; 25 lb. drums, 16 1-2c.; one pound packages, 17c.; half-pound packages, 19c.; one pound tins, 18c. Terms 2 per cent. discount for cash in 30 days or 90 days net.

English Paris Green—Pure English Paris green, petroleum barrels, 15 1-4c.; arsenic kegs, 15 1-2c.; 50 and 100 lb. drums, 16c.; 25 lb. drums, 16 1-2c.; one pound paper boxes, 17c.; one pound tins, 18c.; one-half pound paper boxes, 19c.; one-half pound tins, 20c. Terms, 2 per cent. off thirty days, or ninety days net from date of shipment.

Turpentine—Single barrels, 87c. per gallon; two to four barrels, 86c. per gallon; for smaller quantities than barrels, 5c. extra per barrel is charged. Standard gallon is 8.40 lbs. fo.b. point of shipment, net 30 days.

Linseed Oil—Raw, one to four barrels, 50c.; five to nine barrels, 49c.; boiled, one to four barrels, 53c.; five to nine barrels, 52c. f.o.b. Montreal. Net 30 days.

Ground White Lead — Best brands Government standards, $4.70 to $4.85; No. 1, $4.45 to $4.60; No. 2, $4.20 to $4.35; No. 3, $3.87 1-2 to $3.97 1-2; No. 4, $3.50 to $3.60, all f.o.b. Montreal.

Dry White Zinc—Pure dry in casks, 7c.; in 100 lb. kegs, 7 1-2c.; No. 1 zinc, in casks, 6c.; in 100 lb kegs, 6 1-2c.

White Zinc (ground in oil)—Pure, 25 lb. iron, 7 1-2 to 10c.; No. 1, 6 1-4c.; No. 2, 5 1-4c.

Putty—Pure linseed oil 175 to 185. Bulk in barrels, $1.50; in 25 lb. irons, $1.80; in tins, $1.90; bladdered putty in barrels, $1.75.

Orange Mineral—Casks, 7 1-4c.; 100 lb. kegs, 7 1-2c.; smaller quantities, 8 1-2c.

Red Lead—Genuine red lead in casks, $4.50 in 100 lb. kegs, $4.75; in less quantities at the rate of $5.75 per 100 lbs.; No. 1 red lead, casks, $4.25; kegs, $4.75, and smaller quantities, $5.50.

Shellac Varnish—Pure white, $2.60 to $2.80; pure orange, $2.55 to $2.65; No. 1 orange, $2.30 to $2.45.

Mixed Paints—$1.20 to $1.40 per gallon.

Castor Oil—8 3-4c. to 9 1-4c. in wholesale lots, and 1-2c. additional for small lots.

Litharge—Ground, in casks, 5c.; in less quantities, 5 3-4c.; flake litharge, casks, $5.50; smaller quantities, $6 per 100 lbs.

Refined Petroleum—The opening of navigation has resulted in many orders being booked. We quote: American prime white 14 1-2c., American water white 16c.

Ontario.

Office of HARDWARE AND METAL,
10 Front street east,
Toronto, May 5, 1905.

TURPENTINE is still holding strong, and while a slight decrease is noted in prices quoted, labor troubles in the woods are said to have prevented much new stock coming onto the market, the result being a continued high quotation. Linseed oil has advanced another two cents, and indications are that it will go still higher. New seed is being received in England from Argentina and India, but not in very large quantity.

Mixed paints continue very active, many large sales being reported. Paris green is increasing in activity. Barn paints are stiffer, while a further drop is noted in crude petroleum. Glass is still quoted at the same figures, although higher prices rule in Europe.

White Lead—Ex-Toronto, pure white lead, $4.75; No. 1, $4.37 1-2; No. 2 $4; No. 3, $3.62 1-2; No. 4, $3.35 in packages of 25 lbs and upwards; 1-2c. per lb. extra will be charged for 12 1-2 lb packages; genuine dry white lead, in casks, $4.25.

Red Lead—Genuine in casks of 560 lbs., $4.50; ditto, in kegs of 100 lbs., $4.75; No. 1, in casks of 500 lbs., $4 to $4.25; ditto in kegs of 100 lbs., $4.50.

White Zinc—Genuine French V. M., in casks, $6.50 to $7; Lehigh, in casks, $6 to $6.50.

Shingle Stain—In 5 gallon lots 75 to 90c. per gallon.

Paris White—90c. to $1 per 100 lbs.

Whiting—60 to 65c. per 100 lbs; Gilders' whiting, 75c.

Shellac—Pure orange in barrels, $2.75 to $3; white, $2.85 to $3.10 per barrel; No. 1 (orange), $2.25.

Linseed Oil—Our quotations are: Raw, 1 to 4 barrels, 54c.; boiled, 57c.; 5 to 9 bbls., raw, 53c.; boiled, 59c.; Toronto, 1 to 4 barrels, 52c.; boiled, 55c.; no concessions for larger quantities, Toronto, Hamilton, London, and Guelph, net 30 days. Advance of 2c. for delivery to outside points.

Turpentine—Single barrels, 87c.; 2 to 4 barrels, 86c.; 5 barrels and over, 85c., f.o.b. point of shipment, net 30 days. For less quantities than barrels, 5c. per gallon extra will be added, and for 5 gallon

GOLDEN OAK TURPENTINE STAIN

FOR MANUFACTURERS' USE

An entirely new Golden Oak Stain and one much used by the largest United States Manufacturers, especially adapted to the needs of manufacturers of furniture of all kinds. For developing and enhancing the beauty of all decorative woods it has no equal. We make a Golden Oak Wood Filler, the correct thing for this Stain.

Bbls., Half-Bbls., 5 and 10-Gal. Kits, 1-Gal. Cans. Prices upon Application

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OTTAWA WINNIPEG

WHITE LEAD BUYERS, ATTENTION

205 ST. JAMES STREET

CANADIAN STANDARD

THE WHITE LEAD PAINT CONTAINED IN THIS PACKAGE IS GUARANTEED BY THE WHITE LEAD ASSOCIATION OF CANADA TO BE ABSOLUTELY PURE.

THE WHITE LEAD ASSOCIATION OF CANADA — GUARANTEED PURE LEAD AND OIL

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Accountant and Trustee, Secy. of the Association.

MONTREAL. 479001

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ISLAND CITY

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GUARANTEED TO DRY IN

EIGHT HOURS

P. D. DODS & Co., Montreal, Toronto, Vancouver and Winnipeg

"APPERTAINING TO PAINT"

The Old Method

"In the old days" the individual painter bought his pigments in the **Dry Form** and compounded and mixed them literally by the "sweat of his brow." The apprentice was the chief motive power. Sometimes the product was good, oft-times as thick as a pudding, occasionally gritty and rarely correct in shade when a second batch was prepared. The **Rule of Thumb** largely prevailed. In all civilized countries this antiquated method has been discarded.

The C. P. Co.

In Canada, one of the leading pioneers to develop the handy, always ready, mixed paint trade is the firm known as **THE CANADA PAINT COMPANY, Limited, of Montreal and Toronto,** familiar to all lovers of a pot of good paint as the **C. P. Co.** This Canadian corporation own their mines and extensive works from the start, do their own color and varnish making and printing, being easily the largest manufacturers of Paint in the Dominion of Canada.

The New Method

Machinery with the **Canada Paint Company** has supplanted all hand power. Powerful turbines turn the wheels of ponderous machinery which, in turn, impart power to accurate automatic mixing machines. Gigantic "Egg Beaters," as it were, dozens in a row, line up and occupy a large floor space, each "Beater" or "Mixer" churning up 200 gallons of paint in short order. The base pigment is carefully weighed, as also is the coloring paint, and each lot or turnout is the identical shade of the previous batch and good, clean, even, soft paint is the result.

packages, 50c., and 10 gallon packages 80c. will be charged.

Paris Green—600 lb. barrels, 13 1-4c.; 250 lb kegs 13 1-2c.; 50 lb drums, 14 1-2c.; 1 lb. packets, 15c.

Glues—Broken sheet, in 200 lb. barrels, 5 to 25c. per lb.; cabinet glue, in barrels, 11 1-2 to 12c.; emery glue, in barrels, 15c.; bookbinders' ground, 11 1-2c.; finest American white, 19c.; No. 1 American white, 15c. per lb.

Putty—Ordinary, bladders in barrels, $1.65 to $1.75; pure linseed oil, $2 to $2.10; bulk in barrels, $1.50; pure, $1.95 to $2; 100 lb. kegs 25c. extra.

Plaster Paris—New Brunswick, $2 per barrel.

Liquid Paints—Pure, $1.20 to $1.35 per gallon; No. 1, $1.10 per gallon.

Barn Paints—70c. to 80c.

Bridge Paints—75c. to $1.

Castor Oil—English, in cases, 8 1-2 to 9c. per lb., and 10c. for single tins.

Refined Petroleum — Opening of navigation has brought an increase in business. We quote: Water white, 16c; Canadian prime white, 14½c.; American water white, 16½c. to 18½c. ex warehouse.

Crude Petroleum—A further drop is noted. We quote: Pennsylvania, $1.29; Ohio, 84c.; Somerset, 81c.; Indiana, 88c.; Canadian, $1.27.

Glass—See current quotations at the end of this issue.

Window Glass.

MONTREAL.

Trade has assumed a brighter aspect. No change has occurred in the price list, and one is not likely to occur until after the arrival of new glass. New shipments are expected shortly. Our quotations are as follows: First break, 50 feet, $2.00; second break, $2.10; first break, 100 feet, $3.75; second break, 100 feet, $3.95; third break, 100 feet, $4.50; fourth break, 100 feet, $4.75; fifth break, 100 feet, $5; sixth break, 100 feet, $5.50; seventh break, 100 feet, $6.00; and eighth break, 100 feet, $6.50. Diamond star, first break, 50 feet, $2.30; second break, 50 feet, $2.50; first break, 100 feet, $4.40; second do., $4.80; third do., $5.75; fourth do., $6.50; fifth do., $7.50; sixth do., $8, and seventh do., 9. Double thick, first break, 50 feet, $3.45; second do., $3.75; first break, 100 feet, $6.75; second do., $7.25; third do., $8.75; fourth do., $10; fifth do., $11.50; sixth do., $12.50; seventh do., $14; eighth do., $16.50; ninth do., $18; tenth do., $20; eleventh do., $24, and twelfth do., $28.50.

Already Japanned.

A dealer recently, being asked by a color traveler how large an order he was going to place with him, boastfully replied, "I'm going to buy enough paint to re-paint the Russian fleet." A small boy within earshot remarked, "That's no use, governor. It's already been Japanned."

PERSONAL AND TRADE NOTES.

J. A. Mitchell, Weyburn, Man., proposes to erect a new hardware store.

P. C. Duncan has sold his harness business to the Estevan (Man.) Hardware & Harness Co., of which S. Moulton, late of Carman, Man., is manager.

James Poole, chief accountant of the Canada Cycle & Motor Co., was presented with an address and library chair a few days ago, when leaving that company to enter the real estate business.

A. Gardner & Co.'s new hardware store, at Woodstock, was opened last week. The entire building, which was destroyed by fire in January, has been completely rebuilt and fitted with the latest improvements in the way of fixtures. An entirely new stock has been placed in the store, and Mr. Gardner now has one of the best stores in Western Ontario.

Mr. T. Wright, who represents H. S. Howland, Sons & Co., in Manitoba, has been spending a couple of weeks in Toronto. He leaves for the west next week with his trunks full of the latest samples to be shown the trade. Mr. Wright reports business in the west to be good, although collections are rather slow. The farmers are in many cases land poor, and have to be carried by the local merchants.

Kirk & Co., plumbers, Sydney, N.S., are making extensive improvements to their store.

George J. Rogers, of the Rogers Hardware Co., Limited, Charlottetown, P.E.I., has returned from Saranac Lake, N.Y., where he has been spending the past Winter for the benefit of his health. Many friends of Mr. Rogers will be pleased to learn that he is completely cured.

The Peninsular Tool Specialty Co., who have established a factory at Windsor, are looking forward to big trade in Canada, there being no other concern in the Dominion at the present time making molders' tools.

Telephone City Stoves, Limited, Brantford, have completed extensive alterations to the retail store they recently purchased from Mr. J. B. Turner, at 81 Colborne street.

Mr. Harry C. Martin, British Columbia representative of H. S. Howland, Sons & Co., leaves for the west next week.

IMPROVEMENT ON SAWS PATENTED.

A UNITED STATES patent has been issued to W. J. Cummings and S. Abernethy, of Port Moody, B.C., on an improvement in inserted teeth for saws. This invention is applicable to inserted teeth of the kind exemplified by the Howe, Simmonds and Disston, and is directed to prevent the tendency to lateral displacement of the cutting edge of the bit, which is a common fault in saw teeth of this class, and which not only is productive of rough work, but, by permitting sawdust to escape from the gullet past the swage of the lock portion, causes heating of the blade of the saw with its attendant injurious effects. In the invention a V-shaped projection is provided extending as a chord across the seat of the bit on which the heel of the lock portion bears, which projection fits into and laterally engages a similarly shaped groove in the heel of the bit, and any tendency to lateral displacement is thus prevented.

McCaskill, Dougall & Co.

Manufacturers

RAILWAY, CARRIAGE AND BOAT **VARNISHES.**
HIGH-GRADE FURNITURE and HOUSE VARNISHES

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GLUES of every kind, and for every purpose. Our glues enjoy large sales in almost all countries of the world, and our brands are generally to be seen amongst good stocks of glues. We believe we are giving better value than any other manufacturer, and we want to submit our lines to the Canadian test. Samples gladly sent in reply to inquiries.

GROVE CHEMICAL CO. Ltd., Appley Bridge, Lancashire, Eng.

ASK YOUR JOBBER FOR

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Brand Galvanized Sheets

Uncommonly good at an uncommonly low price. Every sheet guaranteed.

Makers: W. GILBERTSON & CO., Limited
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MESSRS. WAYLAND, WILLIAMS & DADSON

28 BOARD OF TRADE BUILDINGS, MONTREAL

are carrying a stock of our goods and will be pleased to have your inquiries for **Hex.** and **Square Cap Screws, Square Head Set Screws, Bright Washers,** and **Bright** and **finished Hex. Nuts.** The quality is right, and we can give you good deliveries.

ACME LATHE & PRODUCTS CO., LTD.

MANCHESTER.

THE LEADERS



STYLE "A"



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Style "A" with Double Reversible Steel Bow Lever, Patented Cream Breakers.

Style "E" with Hand and Foot combination drive and spring attachment, producing an easy and elastic motion.

The Pittman is quickly detachable from churn.

Both styles are fitted with our improved Steel Ball Bearings and mounted on Rigid Angle Steel Stands.

THE DOWSWELL MANUFACTURING CO., LIMITED
HAMILTON, ONT.

HAVE REMOVED TO THEIR NEW OFFICES.

The new warehouse and offices which were erected by the John Lysaght, Limited, Bristol, England, on St. Paul street, next to the G.T.R. general offices, Montreal, for the joint use of themselves and the A. C. Leslie Co., have at last been completed. The last stroke of the paint brush was made in the early part of this week. The carpenters and bricklayers had all decamped some days ago, so that the building was in fine shape to receive its new tenants when they arrived on Wednesday, April 26. The A. C. Leslie Co., who have always claimed a fair share of the patronage of the public, are now in a better position than ever before to please their customers.

SCRAP METAL HOUSE DAMAGED BY FIRE.

A fire broke out at an early hour on Saturday, April 22nd, in the premises of J. R. Walker & Co., dealers in paper, rags, and scrap metals, at No. 35 Common street, Montreal, and did damage to the extent of $15,000. Mr. Walker states that he had about $15, 000 worth of stock in the building, on which there is $10,000 insurance.

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Traces and Cow Ties

LOWEST PRICES FOR IMPORT

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Will please your customer. A pleased customer is an asset to any business.

No wood to rot, check or break. Special discounts to the trade.

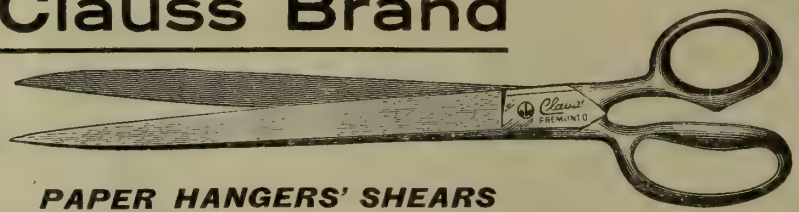
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Steel and Twist Barrels

Superior in Design, Workmanship and Finish, and the most popular Gun on the Market.

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HARRINGTON & RICHARDSON ARMS CO.

Also makers of H. & R. Revolvers.

Catalog on request. Worcester, Mass., U.S.A.

BUSINESS CHANGES

ONTARIO.

A. H. Rozel, proprietor of planing mill, Tilbury, has sold to H. Sloan.

E. A. Pierce, tin and hardware dealer, Delta, is offering his business for sale.

D. Clark, brick manufacturer, Powassan, has advertised his business for sale.

C. A. Quickfall, brick manufacturer, Waterloo, has assigned to G. A. McIntyre.

I. E. Climenhage, tinware and stove dealer, Stevensville, has advertised his business for sale.

A meeting of the creditors of C. A. Girvin, tinware merchant, Bridgeburg, was held April 28.

P. T. Barry & Sons, hardware merchants, Wallaceburg, have advertised their business for sale.

QUEBEC.

The assets of H. O'Brien & Co., painters, Montreal, are to be sold.

Crowder & Desormeau, plumbers, Montreal, have dissolved partnership.

Lussier & Durocher, carriage makers, Valleyfield, have assigned; a meeting of creditors was held May 5.

NEW BRUNSWICK.

J. E. Wilson, Limited, tinsmiths and hardware merchants, St. John, are applying for charter.

NOVA SCOTIA.

Steele & McGregor, contractors, North Sydney, have dissolved and a new firm under the same style has been formed.

MANITOBA AND N.W.T.

F. Pelkey, blacksmith, Weyburn, has been succeeded by Pelkey & Bauer.

Doig & Anderson, hardware merchants, Binscarth, have dissolved partnership.

A. F. Wasey, hardware dealer, Swan Lake, has sold to J. E. Birch & Son.

Will & Nansell, implement aad lumber dealers, Prince Albert, have sold the lumber business at Davidson.

J. M. Hackney & Co., implement and lumber merchants, Morris, have sold the lumber business to the Prairie Lumber Co., Limited.

ROPES AND RIGGING FREE.

A customs circular issued on April 10 notes the fact that head ropes and wire rigging will be admitted free in future. In order that the provisions of the law may be more strictly observed in the sale of these articles, the importer entering "head ropes" and "wire rigging" free of duty is required to deliver to the collector of customs at the port of entry, within one year from time of entry, a return duly attested to, showing how the said articles have been disposed of, with receipts attached thereto from the several persons to whom the articles have been sold on his behalf; undertaking that the articles are "to be used only as head ropes of fishing nets," or "to be used only for wire rigging for ships and vessels," as the case may be.

WALL PAPER

WALL PAPER SALESMANSHIP.

THE correct selling of wall paper requires much skill in the salesman. The customer should not be allowed perfect freedom of choice. It is the part of the salesman to suggest correct patterns. He should select a few designs which would be suitable to the room to be papered, and submit these to the customer. In this way the client is sure of having an artistic room and still has the utmost range of choice consistent with this.

There are one or two points which should be kept in mind in selecting wall paper. It should be constantly remembered that the paper is a part of the whole interior decoration. If this were only considered there would be much less of the inartistic contrasts and ostentation that are seen so frequently. In some rooms each individual piece of furniture and ornamentation seems crying out for recognition. Such a room is badly furnished even though every article in it is a masterpiece of art. The artistic room is the one in which the paper, the carpet, the furniture, all go to make up some ensemble effect. In the latter case, the room will attract attention as being harmonious. The individual articles will then be in best taste when they are satisfied with this subsidiary position and do not lay claim to being all-sufficient in themselves.

In pursuance of this general principle, wall paper should not be too obtrusive. This does not exclude richness of coloring and luxuriance of pattern. It merely means that the paper should be chosen so as to conform to the general idea of the room. For instance, if there are to be pictures in the room, there should be no decided pattern to the paper. Otherwise the background which the pictures need would be lacking.

The shape of the room often regulates the kind of paper which should be used. If the desire is to give the effect of a low ceiling, a wide border or frieze should be used. So a wide or a narrow pattern influences the appearance. These are points which should be carefully watched in choosing a paper. The salesman should have the general points of the room well in hand and make his recommendations accordingly. By doing so he will have no complaints after the room has been decorated, as is almost sure to be the case where the customer is permitted to chose an unsuitable pattern. Good salesmanship consists in more than selling goods. Giving satisfaction to the buyer is a necessary qualification. This will be found in the great majority of cases to follow the sale of the correct thing at all costs.

SPRING SALES.

THE Spring sales in wall paper have been fully up to expectations. In some parts of the country weather conditions were somewhat unpropitious, but on the average the season was fair from this standpoint. The manufacturers report a good activity in repeat orders, and this is a positive sign of the general healthiness of the trade. The manufacturers appear to have gauged the popular fancy with great skill, as the repeat orders have not been confined to one class of paper in particular, but have been distributed over the whole range. This is a good condition to have, both from the manufacturers' standpoint and from that of the retailer. It protects both from having to keep on hand a large and varied stock of undesirable papers, while having to re-order one or two outstanding patterns.

WALL PAPERS

Don't let orders slip by you this month because you have not some special line that's called for.

Send for Samples—get the Goods —and make the Profits—
Goods shipped same day order received.

STAUNTONS LIMITED

TORONTO

IMPERIAL FRENCH GREEN

is preferred by skilled painters because of its fineness of texture, covering capacity and great durability. Acknowledged to be more permanent than Nature's Greens.

Insist on it once and you will always use it.



Be sure this label is on the can and take no other. See sample cards.

JOHN LUCAS & CO., MFRS.,
PHILADELPHIA, NEW YORK, CHICAGO.

MACARTHUR, CORNEILLE & CO., MONTREAL

STOVES AND TINWARE.

American Stoves and Heaters in China.

THERE is a greater demand for stoves of American make in some portions of China than is generally known. Most of the heaters in use among foreigners are American stoves brought to Chinese ports from the United States, a single New York firm seemingly having most of the business.

The stoves used in the central latitudes of China have little in common with those generally in use by the people of the United States. They are small, consume little fuel, comparatively speaking, and give off little heat. The Chinese, as a rule, do not know what Winter comfort with a stove really is. For ages they have huddled over small brass foot or hand stoves or brass braziers filled with glowing charcoal, and what they have lacked in artificial heat they have made up as best they could by extraordinary amounts of clothing. No public building in this part of China has a fire in it in Winter. The schoolrooms are without artificial heat, the churches and temples never knew a stove, and most of the Chinese people are so dressed that they would be uncomfortable if there was any artificial heat. As a result the missionaries have introduced heaters in few, if any, of their schools, and in the course of time they are likely to so modify their way of living that they will use few stoves and little fuel themselves.

At the same time the use of stoves and artificial heat among the well-to-do Chinese is increasing, and it is only a matter of a comparatively short time until there will be an immense demand for American heating apparatus if the present lead of the United States in this line of goods is maintained. How little attention is paid this field by some American manufacturers, however, is apparent from the fact that three families within my knowledge have sent to the United States for direct shipment of three stoves known as "air-tight heaters"—modern wood-consuming stoves, which are very popular—when they should have been able to purchase the same from "stock on hand" in some sample warehouse in the Empire. With the increased supply of fuel, and a lowering in its price, which is soon to follow the opening of more of China's coal fields, there ought to be a corresponding widening of the field for American stoves.

American cooking stoves and ranges are popular, although there are not many real "ranges" in China. Chinese cooks, when cooking for the Chinese, cling to the old Chinese range of brick and mortar with fixed cooking pans of iron or brass. Foreign-trained cooks appreciate foreign makes of stoves and will take them if they can get them. The prices charged for American stoves in China run very high, much higher than the cost at home would seem to justify. In all goods of this class sold in China the profit of the retailer is far beyond what would be thought of in the United States.

The lowering of the cost of American stoves in China, by the reduction of freight rates from the Central States to the coast and thence across the Pacific, would undoubtedly immediately result in largely increased sales.—George E. Anderson, U. S. Consul, Hangchau, China.

The Stove Trade.

AN increasing demand is reported for high-grade ranges. The public is becoming educated to the advantage in buying a good stove. It has begun to realize that a "cheap" range or cook stove is cheap indeed. There is no economy in it. It may look well for a short time, but it soon begins to warp here and crack there and burn through in the other place, and has to be replaced by a new stove. A range made by a reliable firm and sold under their guarantee is the only satisfactory stove to buy, and the sooner the retailer impresses that upon his trade the better for all concerned.

The demand for gasoline and oil stoves is opening up very well. There have been improvements made in these each year until now they overcome the objections of the most timid and there is no reason why they should not be used by anyone as far as safety is concerned. The increasing sales show that the public is appreciating the fact that they are a useful stove, especially for hot weather cooking, and it is probable that the call for them will be larger than ever this season.

Two Good Contracts.

Contracts for the heating and ventilation of the new Molsons Bank Building at Ridgetown and the new school at Wroxeter have been secured by the James Smart Mfg. Co., Brockville. One No. 30 Kelsey warm air generator will be used in each case.



You can sell
SOLARINE
Only get it started in your town.
When people know its merits they buy readily.
Quality counts — **SOLARINE**
QUALITY brings business.
H. F. FALKINER,
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OAKEY'S The original and only Genuine Preparation for Cleaning Cutlery. 6d. and 1s. Canisters
'WELLINGTON'
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MANUFACTURERS OF
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POROUS
AND
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WE ASSORT TO ORDER
Flower Pots, Fern Pans,
and Saucers, to suit the convenience of individual buyers
Our No. 1 Assortment at $5.10
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are made up from long acquaintance with the general need. All ready crated for rush orders.
The FOSTER POTTERY CO.
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IDEAL
Woven Wire Fencing



MAKES MONEY FOR YOU
Your customer, the farmer, wants a fence that can be put up quickly and easily just when he wants it. Hand made fences cost too much when you figure the time it takes to build them, to say nothing of the hard work.
Why not sell "The Ideal," the best woven wire fence made? You can build up a permanent trade that will pay you as much as any line you are handling. Other hardware merchants are doing it. Why not you? The Ideal will give satisfaction to your customer and make him your friend.
Have you seen the Ideal? Let us send you a sample and catalogue showing why Ideal fence made from No. 9 hard steel wire throughout is the strongest and the best value.
Ask us about the Ideal all metal farm gate.
The McGregor-Banwell Fence Co., Limited,
WALKERVILLE, ONT.
Merrick, Anderson & Co., Winnipeg, Man.
Sole agents for Man and N.W.T.

Persons addressing advertisers will kindly mention having seen their advertisement in Hardware and Metal.

WORK AND PRICES RIGHT
GALVANIZING
ONT. WIND ENGINE & PUMP CO.
TORONTO, ONT. LIMITED.

SEALED TENDERS addressed to the undersigned, and endorsed "Tender for Post Office, &c., Sandwich, Ont.," will be received at this office until Friday, May 12, 1905, inclusively, for the erection of a Post Office building at Sandwich, Ont. Plans and specifications to be seen on application at the Department of Public Works, Ottawa, and at the Town-Clerk's office in the town of Sandwich, Ont.

Tenders will not be considered unless made on the printed form supplied, and signed with the actual signatures of tenderers.

An accepted cheque on a chartered bank, payable to the order of the Honourable the Minister of Public Works, equal to ten per cent (10 p.c.) of the amount of the tender, must accompany each tender. This cheque will be forfeited if the party tendering decline the contract or fail to complete the work contracted for, and will be returned in case of non-acceptance of tender.

The Department does not bind itself to accept the lowest or any tender.

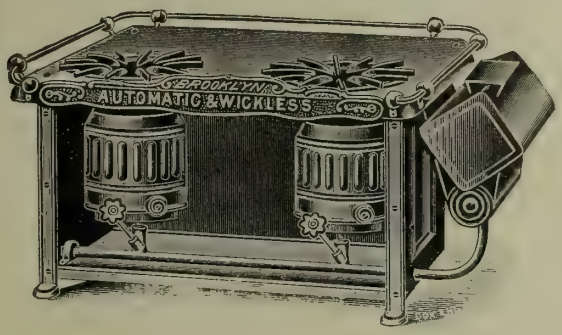
By order,
FRED. GELINAS,
Secretary

Department of Public Works,
Ottawa, April 26, 1905.

Newspapers inserting this advertisement without authority from the Department, will not be paid for it.

TRADE MARK
This design a guarantee of quality.

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IF YOU DO YOU SHOULD USE "CANADIAN-MADE" PAPER
All grades, from the highest "Glossy Finish" to the rough "Antique" and bulky "Featherweight."
YOUR PRINTER CAN SUPPLY IT.
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Brooklyn...
Blue Flame Wickless Oil Cook Stoves.
TWO or THREE BURNERS
Prices and booklet, showing full line of these goods, on application.
We handle Oil Stove Ovens at all prices.
E. T. WRIGHT & CO.
HAMILTON, CANADA.

3c.
is the profit you make on the OLD-FASHIONED WOODEN SIFTER.
90%
is the profit you can make on OUR
METALLIC ASH-SIFTER
Can be retailed at 20c. Is lighter than wood. The wire bottom cannot come loose. Our patent Double Lock Fold makes this impossible. Write for illustrated circular and price.
C. M. CUTTS & CO., Sole Makers, Toronto Junction, Ont.



The cheap range buyers buy ranges with their eyes. The surface tells them the whole story—but there is little profit and no satisfaction in that kind of a range for either them or you.

The man or woman who wants to know why, is the most satisfactory customer to sell—if you can give the best range value—the

OXFORD CHANCELLOR RANGE

That kind of a sale is easy to make, and it gives you and your customer profit and satisfaction. When you sell an Oxford Chancellor you make the purchaser your friend for life—a walking, talking advertisement for your store.

WRITE US ABOUT IT

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TORONTO——WINNIPEG——VANCOUVER
THE GURNEY-MASSEY CO., LIMITED, MONTREAL, QUE.
THE GURNEY STANDARD METAL CO., LIMITED, CALGARY, ALTA.

BUILDING AND CONSTRUCTION

Building Notes.

Bolton is to spend $11,000 for a new public school.

Oakville is to have a new high school to cost $12,000.

W. J. Hanna, Victoria, B.C., is to erect a brick block.

B. Giatano, Niagara Falls, is erecting two stores and dwellings.

The Merchants Bank is to build an office block at Owen Sound.

Thomas Allen, Hamilton, is to erect three houses to cost $6,000.

H. G. McMahon, Hamilton, will build a brick house to cost $1,600.

P. W. Gardiner & Son, Galt, are building a new planing mill.

Charles Kidd will build a brick dwelling at Hamilton to cost $1,600.

Methodists at Ft. Rouge, Man., are to build a $19,300 Sunday school.

W. F. Robertson, Hamilton, has secured a permit for a $1,500 dwelling.

A $16,000 church will be erected by the German Lutherans in Winnipeg.

The Dominion Suspender Co. is to erect a new factory at Niagara Falls.

The Doherty Manufacturing Co. is putting up a brick warehouse at Sarnia.

The Canadian Shovel Co., Hamilton, have secured a permit for a $15,000 factory.

Porter Bros., of Heward, Assa., have commenced the mason work on a stone block.

G. Slade, London, has been issued a permit to erect a cottage on Inkerman street.

J. K. Sutherland, Vancouver, is to erect a three-storey brick and stone building.

The Gilmour Door Factory has decided to erect a large fine new warehouse at Trenton.

A power-house for the new electric railway at Chatham is to be built this Summer.

J. R. Deacon, London, has secured a permit to build a dwelling on Wharncliffe road.

The foundations of Banfield & Co.'s new warehouse at Winnipeg have been completed.

James Winram is building a brick block at Pilot Mound, Man., for general store business.

W. G. Murphy, of Carberry, Man., has let the contract for the excavating for a handsome residence.

The American Furniture Co., Oxford, N.S., who lost their property by fire recently, intend to rebuild.

Building operations have been commenced on the Small & Bucklin lumber mills at New Westminster.

Wake & Carlson are erecting a $10,000 machine shop at Minnedosa, near the new hotel being built there.

The Hamilton Silicate Brick Co. have taken out a permit to construct a concrete factory, to cost $1,500.

The trustees of the Methodist church at Minnedosa, Man., are calling for tenders for an extensive addition.

J. R. Eaton, Orillia, has secured the contract to build a $10,000 church for the St. James' congregation in that town.

A power house for the Portage la Prairie waterworks is to be built by Charles Jeffrey. The cost will be $9,-997.

A. E. Wagdin will erect a two-storey block, 26x60, at Holland, Man. The upper storey will be laid out as a public hall.

J. H. Ashdown Co., Winnipeg, will add four storeys this year to their two storey office aad store building on Main street, at the corner of Bannatyne.

Building permits in Winnipeg have passed the million and a half mark this season. Over $1,000,000 worth are under way in Neepawa, $150,000 in Brandon, and $250,000 in Calgary.

Frederic Nicholls, Toronto, president of the Toronto and Hamilton Railway Co., will receive tenders for the grading, culverts, masonry, bridges, etc., required between Toronto and Niagara Falls, Ont.

The Manitoba Construction Co. have practically completed their work on the new C.P.R. shops at Winnipeg. Modern machinery is now being installed, including a crane capable of carrying a 100-ton locomotive the full length of the shops.

The Hospital Committee, Orillia, Ont., will make a canvas for funds for the proposed hospital, which is estimated to cost $15,000. J. H. Wilson intends building a brick block, two storeys, 50 feet frontage, divided into three stores.

The plans for the construction of the new block for Mr. J. A. M. Aikins, at Winnipeg, are now in the hands of local contractors. The cost will be in the neighborhood of $300,000, and promises to be one of the most complete buildings in the city.

The secretary of the Peterboro Lock Manufacturing Co., Peterboro, Ont., is inviting tenders for the erection of complete new buildings. According to plans the main building will be 175 feet by 44 feet, and three storeys high. The foundry will be 160 feet by 70 feet.

Among the projected buildings in Winnipeg is one to be built near the northeast corner of Main street and Jarvis avenue for Harrison Bros. at a cost of $14,000, to be used as a store and apartment suites; and a large hotel, to be erected on the northwest corner of Main street and Sutherland avenue by a Moose Jaw resident.

The Western Electric Light and Power Co., Brandon, Man., propose to undertake an extensive water-power development on the Assiniboine River, five miles east of Brandon. Tenders will shortly be invited for a new armory, Branson. The plans are in the hands of W. N. Lailey, architect; brick and stone cost $20,000.

Building Permits.

TORONTO

John Gard, dwelling, 93 Smith street, $1,800.

H. Crews, dwelling, Roxborough avenue, $2,000.

R. Durston, pair dwellings, Austin avenue, $2,861.

F. T. Matron, dwelling, Preston avenue, $1,000.

Joseph Harding, dwelling, 110 Birch avenue, $3,000.

Dominion Realty Co., bank, Queen street, $12,500.

E. M. Chadwick, dwelling, Howland avenue, $4,000.

A. B. Coleman, pair dwellings, Atkin avenue, $2,800.

R. M. Wallace, pair dwellings, Havelock street, $5,000.

Fred J. Goodman, one pair dwellings, Salem avenue, $2.000.

W. L. Langridge, dwelling, Lansdowne avenue, $1,200.

A. B. Coleman, pair dwellings, Moutray street, $2,588.

Isaac W. Plews, two pair dwellings, McMaster avenue, $12,000.

Walter Nash two pair dwellings, North Mutual street, $8,900.

Thomas McIllwain, two pair dwellings, Triller avenue, $14,000.

Charles Clegg, barber shop and dwelling, Davenport road, $2,000.

James and George Paul, two dwellings, Ossington avenue, $2,400.

Dominion Realty Co., bank, corner of Parliament and Carlton streets, $14,500.

A. B. Coleman, one pair dwellings, corner of Brock and Atkin avenues, $2,000.

Charles Rogers & Sons, brick dry kiln, corner Defoe street and McDonnell avenue, $2,000.

F. H. Herbert (in trust), dwelling, corner of Avenue road and Farnham avenue, $15,000.

Peter Fraser, one pair dwellings, corner of Concord avenue and Hepbourne street, $4,000.

MONTREAL.

S. Edwards, dwelling, 4 Pine avenue, $5,000.

E. Baugh, dwelling, 8 Huntly street, $2 000.

J. H. Cote, dwellings, 162 St. George street, $5,000.

Nap. Messier, dwellings, 854 Huntly street, $1,800.

Joseph Malo, dwellings, 334 Joliette street, $2,000.

P. Amiot, dwellings, 644 St. Hubert street, $2,000.

E. Vermette, dwellings, 330 Chambord street, $2,500.

"DOMINION BRAND"
TARRED FELT
(THE OLD RELIABLE QUICK SELLER)

ROOFING PITCH
COAL - TAR

WHEN YOUR TRADE DEMANDS **THE BEST** ROOFING MATERIALS

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Steel Roofing and Siding, $2.00 per 100 Sq. Ft.

Painted red on both sides. Most durable and economical covering for **Roofing or Siding, for Residences, Houses, Barns, Elevators, Stores, Churches, Poultry Houses, Cribs, etc.** Easier to lay and will last longer than any other covering. Cheaper than wood shingles or slate. No experience necessary. A hammer and snips are the only tools required. It is semi-hardened high grade steel. **Brick or Stone Siding at $2.00 per 100 Square Feet. Pedlar's Patent Steel Shingles at $2.50 per 100 Square Feet.** Also **Corrugated Iron, Painted or Galvanized,** in sheets 96 inches long. **Beaded and Embossed Ceilings. V Crimped Roofing.** 2000 designs of Roofing, Siding and Ceilings in all grades. Thousands of buildings through the Dominion covered with our Sheet Metal Goods making them

FIRE, WATER AND LIGHTNING PROOF.

Send in your order for as many squares (10 x 10 feet) as you require to cover your new or old building. The very best roofing for this climate. We can supply **Eave Trough, all sizes, Corrugated or Plain Round, Conductor Pipes, Shoes, Elbows, Spikes, Tubes.**

All goods shipped day after order is received. We are the largest concern of the kind under the British Flag. Established 1861. Capital Invested $150,000.00.

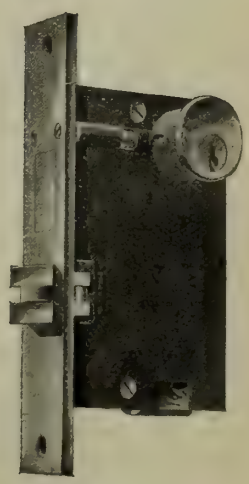
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Eastern Warehouse—767 Craig St., Montreal, Quebec.



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Gurney Cylinder Locks

are the equal of any lock on the market Our workmen and designers are experts. We use the very best raw material and guarantee every lock we send out.

The price is very low—a matter of importance to every builder in making a tender.

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HAMILTON

BRANCHES:
Winnipeg—Tilden, Gurney & Co., Limited
Vancouver—The Gurney, Tilden Co., Limited

AGENCIES:
Montreal—Nicoll & Barr, 85 St. Peter St.
St. John—Nicoll & Barr, 38 Dock St.

Jos. Laporte, dwellings, 160 Ontario street, $2,000.
N. Henault, dwellings, 477 Huntly street, $1,800.
Dr. F. Gabaury, dwellings, 45 Park avenue, $7,500.
A. Paquette, dwellings, 52 Lionais street, $2,000.
C. N. Colby, dwelling, 1765 Pine avenue, $12,000.
N. Daw & Co., dwelling, 36 Chaboillez square, $20,000.
P. Brossard, dwellings, 2911 Chateauguay street, $2,500.
Joseph Lapierre, dwellings, 98 Dufresne street, $2,500.
J. Archambault, dwellings, 126 to 128 Aylwin street, $3,000.
J. A. Prendergast, dwelling, 1702 Crescent street, $7,000.
Mrs. G. E. Robertson, dwelling, 1703 Crescent street, $7,000.
H. Brunette, dwellings, Huntly street, in St. Denis Ward, $1,500.
E. Clermont, dwellings, Aylwin street, in Hochelaga ward, $2,700.
A. Chartier, dwellings, Aylwin street, in Hochelaga Ward, $2,000.
L. N. Noiseux, dwellings and stores, 2175 Notre Dame street, $3,500.
Q. Bourbonnais, dwellings, Chambord street, in Duvernay ward, $2,500.
Castle & Son, alterations to store, 2446 St. Catherine street, $3,000.
Joseph Legault, dwelling, Lariviere lane, in St. Mary's ward, $1,500.
Alex Hogue, dwellings, St. Hubert street, in St. Denis Ward, $1,500.
John Withell, alterations to store, 2492 St. Catherine street, $1,500.
Wm. Patley, dwellings, Oxenden avenue, in St. George's ward, $9,000.
Geo. Lamarche, dwellings, corner of Dorion and Lalonde streets, $2,500.
A. Bourassa, dwellings, Joliette street, in Hochelaga Ward, $2,700.
L. Langevin, dwellings, Aqueduct street, in St. Joseph's ward, $2,500.
J. L. C. Clement, dwellings, 124 Christopher Columbus street, $3,000.
Trustees of St. Agries Church, dwelling, 63 to 66 St. Denis street, $25,000.
E. Lamoureux, dwellings, St. Elizabeth avenue in St. Louis' ward, $1,500.
Mrs. J. A. Riopelle, alterations to dwellings, 584 Papineau avenue, $2,000.
Miss S. King, alteration to store and dwellings, 316 to 318 Amherst street, $2,150.
V. Morin, alteration to dwelling, corner of St. Denis and Sherbrooke streets, $7,000.
Protestant Board of School Commissioners, dwelling, 4420 Mitcheson street, $35,000.
Davies Co., Limited, store, corner Notre Dame street and Chaboillez square, $6,000.
D. Ouimet, alterations to stores and dwellings, 911 to 929 St. Catherine street, $3,000.
J. Barry, alteration to store, corner of St. Catherine and Maisonneuve streets, $3,500.
Grosvenor Appointment Limited, dwellings, corner of Guy and Sherbrooke streets, $150,000.
Laurent estate, alterations to store, corner of St. Catherine and St. Christophe streets, $1,400.
Protestant Board of School Commissioners, educational buildings, 497 St. Catherine street, $18,000.
Pelican British Empire Insurance Co., corner Notre Dame and Frs Xavier streets, alterations to building, $5,000.

The Hanover Portland Cement Co., Limited
HANOVER, ONTARIO
Manufacturers of the celebrated **"Saugeen Brand"** OF PORTLAND CEMENT.
Prices on application.

"THE EMLYN" SAW BENCH
Made in 6 sizes. Best value obtainable. Specially designed for export With or without "Emlyn" Patent Guard. Sole maker—
CHARLES D. PHILLIPS,
Cables—"Machinery," Newport. Emlyn Engineering Works NEWPORT, MON., ENGLAND

Don't Forget the Name. . .
NEWMAN'S INVINCIBLE FLOOR SPRINGS
Strong, Quick, Reliable, Effective.
Will close a door against any pressure of wind. Far ahead of ordinary door springs, pneumatic or otherwise. Ask your wholesaler.
W. NEWMAN & SONS, Birmingham.

Are you interested in any of the lines that are advertised?
A Post Card will bring you price list and full information.
Don't forget to mention Hardware and Metal.

A PERMANENT and Handsome Roof.

Arrow Brand Asphalt Ready Roofing
Will bring you profitable trade and satisfied customers. Comes in rolls ready to lay, all ready covered with gravel. Requires no experience to lay, and lasts for years without further attention.
A. C. JENKING & CO, Sole Agents,
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Sole agents being appointed in each district. Write to-day.

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The Best Hardwood Floor Dressing and Furniture Polish
IN BBL. LOTS $1.50 PER GAL. SINGLE GALS., $1 75.
AGENTS WANTED. For further particulars write
O-So-Ezy Mfg. Co., Limited, 205 St. James St, Montreal


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We make Tents of all kinds.
Tents properly made last much longer than those which are MADE TO SELL ONLY.
We pay the strictest attention to every detail in the make-up of each and every tent we turn out.
Our prices are right. Ask for estimate on size you require.
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When seeking quality in saws the intelligent mechanic need go no further than the Atkins high-grade Silver Steel Hand Saws. In material, temper, finish, and cutting qualities they are perfect.

The Atkins Silver Steel Hand Saws with Perfection handle sell at sight. Dealers everywhere find them a good investment.

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Class Importers and Manufacturers.

STREET PAVING and SIDEWALKS a SPECIALTY

SILICA BARYTIC STONE CO.

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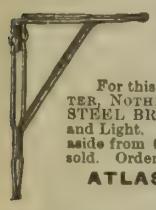
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Water Proof Floors for Malt Houses, Breweries, Slaughter Houses Cheese Factories, Cellar, Stable Floors, etc

Ask for quotations for Septic Tanks.



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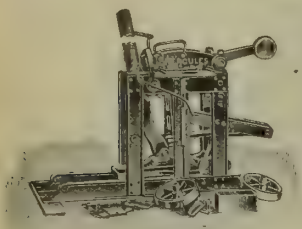
That's what a shelf bracket is for.

For this purpose there can be NOTHING BETTER, NOTHING CHEAPER than the BRADLEY STEEL BRACKET. It is well Japanned, Strong and Light. The saving in freight is a good profit, aside from the lower price at which the goods are sold. Order direct or through your jobber.

ATLAS MFG. CO.,

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Bricks! Bricks! Bricks!



If you know of anyone intending to make bricks, induce him to use one of our

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IT WILL PAY YOU

No previous experience needed.

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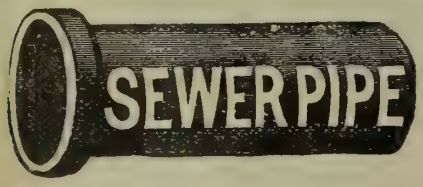
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CANADIAN CONTRACT RECORD

ll where contracts may be had.

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Toronto, Montreal, and Winnipeg.

INDUSTRIAL GOSSIP

HARDWARE AND METAL would be pleased to receive from any authoritative source industrial news of any sort, the formation or incorporation of companies, establishment or enlargement of mills, factories, foundries or other works, railway or mining news. All correspondence will be treated as confidential when desired.

THE new foundry erected in connection with the Taylor-Forbes Mfg. Co.'s plant at Guelph, for the production of radiators, will be in operation in the course of a few weeks. The building is 348 feet long by 80 feet wide and one storey in height. The machinery is of the very latest pattern and was designed and built in the other departments of the factory. The company has also erected a new electrical power plant at a cost of $12,000. A 250 kilowat generator and seven motors aggregating 210 horse-power, have been installed. The system is a 3-phase, 60-cycle induction motor, making it suitable for Niagara power connection.

W. B. Burrill is asking Brantford for a new site for a foundry.

The D. Conboy Carriage Top Mfg. Co. propose to build a new factory in Toronto to cost $60,000.

The Canadian Saw Co., Limited, St John, N.B., is installing new machinery and may build a new factory.

The Diamond Flint Glass Co. proposes to establish a branch factory at Winnipeg and employ 100 to 150 hands.

A company has been formed in Blenheim to manufacture hollow cement blocks for the erection of public buildings, residences, etc.

The Nova Scotia Steel and Coal Co. shipped their first cargo of pig iron from the Sydney mines furnaces this season on April 28 by the Micmac for Philadelphia.

A large United States concern is looking for a site at Port Arthur for a branch factory to make barbed wire, fencing, nails, etc., for the Northwest trade. About $200,000 will be spent on the plant.

A company with a capital stock of $50,000 has been formed in Pembroke for the manufacture of incubators, cooking ranges, boilers, heaters, agricultural implements and generally to make everything needed by farmers or dairymen.

Work on the new peat plant at Fort Frances has commenced. The estimated cost of the plant is $50,000. As soon as the first plant has been tested two more will be added making three complete plants costing $150,000 and employing 200 men.

Western towns are busy getting ready to make extensive local improvements. Prince Albert will spend $160,000 in sewers, sidewalks, and water works; Calgary $60,000 for an electric light plant, and Indian Head $150,000 for sewers, light, fire protection, and waterworks.

Clare Bros. & Co., of Preston, are making large additions to their plant to enable the company to meet increasing demands for their product. The new additions include a one-storey building, 60x30 feet, a moulding shop, 95x100 feet, and a three-storey pattern storage warehouse, 36x85 feet in size.

Manitou Oil and Gas Co., Toronto, share capital $1,000,000; purpose, to develop oil, gas and salt properties. The directors are: P. Poirer, of Shediac, N.B.; F. H. Bilk, R. A. Riky, and J. R. Bates, of Shelburne; E. D. Lafleur and John Costigan, of Ottawa; and G. Livingstone, of Cottingham.

The output of the Dominion Iron & Steel Co. for the month of March was the largest in tonnage in the history of the company. Good progress has been made on the rail-mill since the snow blockade has been removed, and the company should be manufacturing rails within the next few weeks unless some unforeseen circumstance should interfere.

The firm of R. Cunningham & Sons, Port Essington, doing a very large trading business on the northern coast of British Columbia, had just been incorporated as the news was announced of the death of R. Cunningham, sr., the founder of the business. Death occurred at Victoria. Deceased was a pioneer of the northern part of the province and widely interested in cannery business, general merchandise, steamboating, etc.

The Canadian General Electric Co. have purchased a large block of land in Peterboro in addition to the thirty acres now occupied by them. The expanding business of the company demands large additions to their buildings, which will be made this Summer. The Peterboro Lock Works have also to have more room, and a meeting of the shareholders has authorized the construction of entirely new buildings on a large scale.

Mr. John E. Burchell and others, of Sydney, Cape Breton, have succeeded in forming a company to be known as the Canada Wire and Nail Company, Limited, with a capital stock of $200,000, the object of which is to manufacture and sell nails, spikes, nuts, bolts, screws, wire and wire fencing. It is expected that at the outset about forty men will be employed. Arrangements are being made with the Dominion Iron and Steel Co. for the necessary supply of raw material.

The steel works of the Lake Superior Corporation at Sault Ste. Marie, Ont., are now receiving iron ore at the rate of about 35 tons a day from the Williams mine. It is claimed to be of Bessemer quality, and the output will shortly be increased. Another prospective source of supply is a mine situated about 25 miles below the Sault, which will be in operation before long. The steel works are turning out daily between 350 and 500 tons of steel rails on their contract with the Canadian Pacific Railway.

The Vancouver Power Co.'s tunnel, connecting Lakes Coquitlam and Beautiful, has been completed after 2½ years' work. The tunnel is 12,775 feet long and levels were kept so true that when the final jointure occurred they were not above an inch out from each other. Messrs. Ironside, Rannie & Campbell, of Vancouver, were the contractors for the work, their tender being in the neighborhood of $350,000. The Vancouver Power Co. is a subsidiary of the B. C. Electric

Co., and has installed an extensive plant for generating electricity for street railway and lighting purposes.

M. J. Haney has come to terms with the City of Toronto regarding a new iron construction plant in the Ashbridge's Bay district. Mr. Haney will take twenty acres directly east of Cherry street, all but two acres of which is under water. To reclaim the land he will spend about $130,000 in filling in and crib work, the estimated cost of the latter being $90,000. He will employ about 200 hands at the start, being given a lease for twenty-one years at a nominal rental of $300 and a fixed assessment of $20,000. Mr. Haney proposes to undertake large contracts for tunnelling, bridge work, etc., throughout the country.

Financial papers announce that the Ontario-Niagara Power Co. has sold to New York State customers 60,000 horsepower per annum for a period extending to April 1, 1950, with renewal rights for 60 years more. Inasmuch as the company is to develop 125,000 horse-power it will be within its rights in exporting one-half of that. The agreement says that "whenever required" the company shall supply at least one-half of its output to Canadian applicants. If, therefore, during the first year of operation 20,000 horse-power was developed, and there was an application from Ontario for 12,000 horse-power, all the company would be obliged to sell on this side would be 10,000.

COMPANIES INCORPORATED.

Sergeant Co., Limited, Barrie, share capital, $50,000; purpose, to deal in fuel and builders' material. The directors are: W. Sergeant, S. Sergeant, of Barrie, and W. A. Sergeant, of Orillia.

J. E. Wilson, Limited, St. John, N. B.; share capital, $40,000; purpose, to do a general foundry business. The directors are: J. E. Wilson, B. J. Wilson, C. Cobham, E. McLaughlin and W. D. Thompson, all of St. John.

Fairgrieve Mfg. Co., Limited, Toronto; share capital, $40,000; purpose, to mine and smelt minerals and manufacture stoves, machinery, etc. The directors are: T. S. Baker, H. W. McMahon and W. F. Godfrey, all of Toronto.

Canadian Scale Co., Limited, Montreal; share capital, $20,000; purpose, to manufacture weighing machines. The directors are: C. A. Backer and R. Osgoode, of Boston; L. A. Wheeler, G. D. Fyfe and J. A. Ewing, all of Montreal.

Canadian Manufacturing Co., Limited, Montreal; share capital, $40,000; purpose, to manufacture machinery and electrical devices. The directors are: L. Rubenstein, A. D. Gall, E. Goodwill, H. Ward and H. J. Eliott, all of Montreal.

R. Watt Machine Works, Limited, Ridgetown; share capital, $50,000; purpose, to manufacture agricultural implements, etc. The directors are: R. Watt, W. J. Taylor, C. R. Gammage, J. L. Blair and D. Watt, all of Ridgetown.

Smith Stacker and Feeder Co., of Hamilton, Limited, Hamilton; share capital, $40,000; purpose, to manufacture agricultural implements. The directors are: H. W. Smith and M. F. Smith, of the Township of Glanford, and J. P. Stanton, of Hamilton.

Pedlar Talks

No. 3. OSHAWA, ONT. May 6, 1905

ANY JOBS YOU KNOW OF

If you know of any jobs going on that you think it worth while going after to induce the builders to use Metal Lath instead of wood, write us about them and we will work heartily with you to get Metal Lath specified. The job will go through in your name. We charge the builder 10c. a square yard and allow you a discount.

Of course we prefer to have the dealer carry a small stock of our "Perfect" Metal Lath. He is then in a better position to make a sale and it also shows the prospective customer he has confidence in the goods.

Write us about any job in your neighborhood, and we will do our best to make the matter worth a few dollars, perhaps a good many dollars, to you.

FIRE PROOF

Probably the point the builder will most appreciate in our "Perfect" Metal Lath is that it is fire proof. Insurance rates are higher to-day than they were a few years ago. This has compelled men to build structures as nearly fire proof as possible in order to get the lowest possible insurance rates. "Perfect" Metal Lath is as cheap as wood and it has the additional advantage of securing lower insurance rates.

Few buildings die of old age. A house or factory may be erected which, under ordinary circumstances, lasts a hundred years; but unless fire proof, in a few minutes it may be consumed by fire. Buildings were made of wood a few years ago because wood was the most convenient and the cheapest. To-day wood is becoming scarcer and dearer. Our "Perfect" Metal Lath is

CHEAP AS WOOD

It is just half the price of Wooden Lath on the market. Our price to the consumers is 10c. a square yard. Find out at what price other makers are selling Metal Lath, which we claim is inferior to our "Perfect" brand.

"Perfect" Metal Lath can be applied more quickly than Wooden Lath. Any mechanic can apply it without experience. The key is positive and when plaster is applied it becomes so strongly imbedded that it is impossible for the mortar to contract and fall off. It takes no more mortar than wood and there is no danger of a good job being spoiled by the sap from the wood staining through the plaster.

Write us for further information and sample. THE PEDLAR PEOPLE, Oshawa, Ont., Eastern Warehouse, 767 Craig St., Montreal, Que.

IT IS A FACT

That we lead in our lines. You believe **quality** counts, and so all sensible people agree. **The increase in our trade is a living testimony to the high grade stock which we manufacture.**

ASK FOR OUR QUOTATIONS—THEY WILL INTEREST YOU.

Ready Roofing, Sheathing and Black Diamond Tarred Felts, Building Papers, Fibre and Manilla Wrappings, etc.

FELT FACTORY, Harbour and Logan Sts., MONTREAL. PAPER MILLS—JOLIETTE, Que

ALEX. McARTHUR & CO., Limited,

82 McGill Street, - MONTREAL

CURRENT MARKET QUOTATIONS.

May 5, 1905.

These prices are for such qualities and quantities as are usually ordered by retail dealers on the usual terms of credit, the lowest figures being for larger quantities and prompt pay. Large cash buyers can frequently make purchases at better prices. The Editor is anxious to be informed at once of any apparent errors in this list, as the desire is to make it perfectly accurate.

METALS.

TIN.

Lamb and Flag and Straits—	
56 and 28-lb. ingots, 100 lb.	$32 00 $33 00

TINPLATES.

Charcoal Plates—Bright.

	Per box.
M.L.S., equal to Bradley—	
I C, usual sizes	$6 50
I X "	8 00
I X X "	9 50
Famous, equal to Bradley—	
I C	6 50
I X	8 00
I X X	9 50
Raven and Vulture Grades—	
I C, usual sizes	4 25
I X "	5 00
I X X "	5 75
I X X X "	6 50
"Dominion Crown Best"—Double Coated, Tissued.	Per box.
I C	5 50
I X	6 50
I X X	7 50
I Allaway's Best"—Standard Quality.	
I C	4 50
I X	5 50
X	6 50

X Coke Plates—Bright.

Bessemer Steel—	
I.C., usual size, 14x20	3 50
I.C., special sizes, base	3 75
20x28	7 50

Charcoal Plates—Terne

Dean or J. G. Grade—	
I.C., 20x28, 112 sheets	7 50
IX., Terne Tin	10 50

Charcoal Tin Boiler Plates.

Cookley Grade—	
X X, 14x56, 50 sheet bxs.	7 00
" 14x60, "	
" 14x65, "	

Tinned Sheets.

72x30 up to 24 gauge	7 25	7 50
" " 26 "	7 75	8 00

IRON AND STEEL.

	Montreal.	Toronto.
Common bar, per 100 lb	1 80	1 80
Forged iron "	2 05	2 05
Refined " "	2 20	2 05
Horseshoe iron "	2 02½	....
Hoop steel, 1½ to 3 in. base	....	....
Sleigh shoe steel "	1 97½	....
Tire steel	2 07½	....
T. Firth & Sons, tool steel—		
Speedicut	....	0 60
Annealed speedicut	....	0 65
Self-hardening	....	0 36
Best tool steel	....	0 12
Warranted	....	0 09
Best sheet steel	....	0 12
B. K. Morton & Co.—		
"Alpha" high speed	....	0 65
" annealed	....	0 70
"M." Self-hardening	....	0 50
"J" quality	....	0 18
"I" "	....	0 14
"BC" "	....	0 09
Jonas & Colver's tool steel	0 10	0 20
" "Novo"	....	0 65
" " annealed	....	0 70
Chas. Leonard	0 08	0 09
Crucible Steel Co.—		
" Rex high speed steel	0 65	0 75
" Self-hardening	0 45	0 50
Crucible Special	....	0 17
" Silver steel	....	0 13
" Black Diamond	0 10	0 11
Sanderson's Crucible steel	0 08	0 09
" Superior "	0 12	0 13

BABBIT METAL.

Syracuse Smelting Works:

Aluminum, genuine	0 45
Government, "	0 44
Tough, "	0 40
Hard, "	0 40
Dynamo	0 30
Special	0 25
Maganese	0 18
Car Box	0 17
Extra	0 13
No. 1	0 10
No. 2	0 07
No. 3	0 05½

Larg orders subject to diseounts.

The Canada Metal Co.:

Imperial, genuine,	0 40
Metallic	0 30
Hercules	0 20
Star	0 15
No. 1	0 12
No. 2	0 10
No. 3	0 06
No. 4	0 05

BLACK SHEETS.

	Montreal.	Toronto
10 gauge	2 30	2 30
12 and 14 gauge	2 25	2 35
17 "	2 20	2 40
22 to 24 gauge	2 05	2 50
26 "	2 10	2 65
28	2 15	2 70

COPPER WIRE.

Discount, 50 per cent.

CANADA PLATES.

Ordinary	2 50
All bright	3 75
Galvanized Canada Plates—	

J. C. M. 3 Crowns

16 x 21 x 60	3 33
18 x 24 x 52	3 33
18 x 24 x 60	3 56

	Ordinary.	Dom. Crown.
18x24x52	4 25	4 35
60	4 50	4 60
20x28x80	8 50	8 70
" 94	9 00	9 20

GALVANIZED SHEETS.

	Fleur-de-Lis.	Gordon Crown.
16 to 20 gauge	3 40	....
22 to 24 gauge	3 50	3 50
26 "	3 75	3 75
28 "	4 00	4 15

	Comet Bell.	Queen's Head
16 to 20 gauge	3 40	....
22 to 24 gauge	3 45	3 65
26 "	3 70	3 90
28 "	3 95	4 15

American brands, $3.90 for 10¾ oz.
Less than case lots 10 to 15c. extra.

CHAIN.

Proof coil, 3-16 in., per 100 lb.	7 00	10 00
" ¼ "	....	5 60
" 5-16 "	....	4 45
" ⅜ "	....	3 85
" 7-16 "	....	3 70
" ½ "	....	3 55
" 9-16 "	....	3 45
" ⅝ "	....	3 35
" ¾ "	....	3 25

Halter, kennel and post chains, 40 to 40 and 5 per cent.

Cow ties	40 p.c.
Tie out chains	65 p.c.
Stall fixtures	35 p.c.
Trace chain	45 p.c.
Jack chain, iron, single and double, discount 35 p.c.	[count 40 p.c.
Jack chain, brass, single and double, discount	

COPPER.

	Ingot.	Per 100 lb.
Casting, car lots	16 25	16 5[illegible]

Bars.

Cut lengths, round, ⅜ to ⅞ in.	21 00	23 00
" round and square,		
Cut 1 to 2 inches	21 00	23 00

Sheet.

Plain, 16 oz., 14x48 and 14x60	....	21 00
Plain, 14 oz.	....	22 00
inned copper sheet	....	24 00
lanished	....	32 00

Braziers' (in sheets).

4x6 ft., 25 to 30 lb. each, per lb.	0 22
" 35 to 45 "	0 21
" 50-lb. and above "	0 20

BOILER AND T.K. PITTS.

Plain tinned, Spun } 41½ per cent. off list.

BRASS.

Rod and Sheet, 14 to 30 gauge, 10 per cent.

Sheets, hard-rolled, 2x4	0 23
Tubing, base, per lb	0 23½

ZINC SPELTER.

Foreign, per 100 lb	7 00	....
Domestic " "	6 75	7 00

ZINC SHEET.

5-cwt. casks	....	7 00
Part casks	....	7 25

LEAD.

Imported Pig, per 100 lb	3 50	3 75
Bar, "	....	4 80
Sheets, 2½ lb. sq. ft., by roll	....	0 06½
Sheets, 3 to 6 lb. "	....	0 06

NOTE.—Cut sheets ¼c. per lb., extra. Pipe, by the roll, usual weights per yard, lists at 7c. per lb. and 35 p.c lis. f.o.b. Toronto.

NOTE.—Cut lengths, net price, waste pipe 8-ft lengths, lists at 8c.

ANTIMONY.

Cookson's per lb.	....	0 09½

SHOT.

Common, $6.50 per 100 lb.; chilled, $7.00 per 100 lb.; buck, seal and ball, $7.50. Discount, 15 p.c. Prices are f.o.b. Toronto, Hamilton, Montreal, St. John and Halifax. Terms, 2 p.c. for cash in thirty days.

PLUMBING GOODS.

BATH TUBS.

Zinc	6 00
Copper, discount 20 per cent. off revised list.	

BATHS.

Standard Ideal Enameled.

Plate E I, Fittings extra	1st quality		Special
4 and 4½ ft.	18 in. rolled rim	18 00	16 00
5 feet	"	19 00	17 00
5½ "	"	20 50	18 50
6 "	"	23 25	21 25
Plate E II			
4½ feet	24 in. "	16 75	14 75
5 "	24 " "	17 50	15 50
5½ "	24 " "	19 00	17 00
Plate 123 E, lavatories	1st quality		8 90
" 123 E, "	2nd "	....	7 50
" 127 E, "	1st "	....	5 70
" 127 E, "	2nd "	....	4 80
" 128 E, "	1st "	....	5 60
" 128 E, "	2nd "	....	4 70
" 129 E, "	1st "	....	5 40
" 129 E, "	2nd "	....	4 50
Sinks 18 x 30 in flat rim, A quality			2 45
" " " " " B "			2 00

IRON PIPE.

Black pipe—	Per 100 feet.
⅛ inch	2 75
¼ "	2 04
⅜ "	2 06
½ "	2 30
¾ "	2 88
1 "	4 12
1¼ "	5 62
1½ "	6 75
2 "	9 00

Galvanized pipe—	
⅛ inch	2 86
¼ "	2 89
⅜ "	3 14
½ "	4 02
1 "	5 77
1¼ "	7 88
1½ "	9 45
2 "	12 60

Malleable Fittings—Canadian discount 35 pe cent. American discount 20 to 25 per cent

Cast Iron Fittings—Standard bushings 50 and 10 and 10 per cent.; headers, 60; flanged unions and lipped, 60 and 5; malleable bushings, 65; nipples, up to 6 in., 75.

PLUMBERS' BRASS GOODS.

Standard Compression work, dis. 50 p.c.
Cushion work, discount 50 per cent.
Fuller work, discount 65 per cent.
6 dozen lots and over of the above, extra discount 10 per cent.
Lever handle Stops and Waste, discount 55 per cent. With in lots of 2 dozen and over an extra discount of 10 per cent.
J.M.T. Globe, Angle and Check Valves, discount 55 per cent.
Standard Globe, Angle and Check Valves, discount 65 per cent.
Kerr's special standard globes and angles, discount 55 per cent.
Kerr's Jenkin disc, copper-alloy disc and heavy standard valves, discount 55 percent.
Kerr's standard brass checks, discount 55 p.c.
Kerr's standard brass disc steam radiator valves, discount 65 per cent.
Kerr's Jenkin disc, copper-alloy disc radiator valves, discount 65 per cent.
Kerr's quick-opening hot-water radiator valves, discount 65 per cent.
Weber's (Kerr) patent straightway gate valves, brass, discount 50 per cent.
Weber's (Kerr) patent straightway gate valves, I.B.B.M., discount 60 and 10 per cent.
J. M. T. Radiator Valves discount 55 per cent.
Standard Radiator Valves, discount 65 per cent.
Patent Quick-Opening Valves, discount 7 and 10 per cent.

No. 1 compression bath cock	net	1 75
No. 4 " "	"	1 90
No .7 Fuller's	"	2 20
No. 4½, "	"	2 35

Patent Compression Cushion, basin cock, hot and cold, per doz., $31; 5 and 10 per cent. discount.
Patent Compression Cushion, bath cock, No. 2208 2 25
Square head brass cocks, discount 55 per cent
" " iron " 60 "
Thompson Smoke-test Machine $25.00

RANGE BOILERS.

Copper, 30 gallon	"	22 00
" 35 "	"	24 00
" 40	"	28 00

Discount off copper boilers 15 per cent.

GALVANIZED IRON RANGE BOILERS.

Capacity. Gals.	Standard.	Extra heavy
12	4.50	6.50
18	4.75	6.75
24	4.75	6.75
30	5.00	7.50
35	6.00	8.50
40	7.00	9.50
52	11.00	14.00
66	18.00	20.00
82	21.00	24.00
100	29.00	34.00
120	34.00	40.00
144	47.00	55.00

American Steel & Wire Co.

New York Empire Building | **Montreal** N. Y. Life Building | **Chicago** The Rookery

BARBED WIRE CALVANIZED PLAIN WIRE PLAIN TWIST CABLE FENCING

Telegraph and Telephone Wire; Mattress, Broom, Weaving Wires of every description; Rail Bonds, Bale Ties, Special Wires for all purposes, Springs, Horse Shoes, Wire Rope, Cold-drawn Steel Shafting.

SOIL PIPE AND FITTINGS.

Med. and Extra heavy pipe and fittings, dis. 60 per cent.
7 and 8-in. pipe, discount 40 and 5 per cent.

SOLDER.

	Per lb
Bar, half-and-half, guaranteed	0 17½
Wiping	0 15½
Refined	0 16½

PAINTS AND OILS.

COLORS IN OIL.

1-lb. tins, pure.

Venetian red, per lb.	0 08
Chrome yellow	0 15
Golden ochre	0 08
French "	0 06
Marine black	0 04
Chrome green	0 10
French permanent green	0 13
Signwriters' black	0 15

WHITE LEAD.

	Per 100 lb.
Pure	4 60 4 75
No. 1	4 35 4 50
No. 2	4 30
No. 3	3 37½
No. 4	3 35
Munro's Select Flake White	4 75
Elephant and Decorators' Pure	4 75
Tiger brand, pure	5 00
Decorators' Special for exterior use	4 25
Monarch	5 00
Decorator's Pure	4 75
Essex Genuine	4 25
Sterling Pure	5 00
Island City Pure	5 00
Ramsay's Pure Lead	4 75 5 00
Ramsay's Exterior	4 50 4 75

RED LEAD.

Genuine, 560 lb. casks, per cwt	$4 50
Genuine, 100 lb. kegs, "	4 75
No. 1, 560 lb. casks, per cwt	4 00 4 25
No. 1, 100 lb. kegs, per cwt	4 75

WHITE ZINC.

Extra Red Seal	0 06 0 08
French V. M.	0 06½ 0 07
Lehigh	0 06 0 06½
Pure	0 07½
No. 1	0 06½
No. 2	0 05½

DRY WHITE LEAD.

Pure, casks	4 50
Pure, kegs	4 75
No. 1, casks	4 00
No. 1, kegs	4 25

PREPARED PAINTS.

In ½, ¼ and 1-gallon tins.

Pure, per gallon	1 20
Second qualities, per gallon	1 00
Barn (in bbls.)	0 60 0 90
The Sherwin-Williams paints	1 35
Canada Paint Co.'s pure	1 25
Toronto Lead & Color Co's pure	1 25
Sanderson Pearcy's pure	1 20
Standard Co.'s "New Era."	1 30
"Globe" barn	60 70
Francis-Frost Co.'s "Ark" B'd	1 25
" British Navy deck	1 50
Henderson & Potts's "Anchor"	1 35
Ramsay's paints, Pure, per gal.	1 20
" Thistle, "	1 00
" Outside, bbls	0 55 0 65
Island City House Paint	1 25
" Floor "	1 25
Sterling House Paint	1 20
" Floor "	1 10
Stewart & Wood's pure	1 20
National	1 05

PARIS GREEN.

Petroleum, barrels, per lb.	0 13½
Arsenic, kegs	0 13½
50 and 100-lb. drums	0 14
25-lb. drums	0 14½
1-lb. paper boxes	0 15
½-lb. paper boxes	0 17

Terms—2 per cent. off 30 days, or 90 days

PUTTY.

Bulk in bbls.	1 50
Bulk in less quantity	1 80
Bladders in bbls.	1 65 1 75
Bladders in kegs, boxes or loose	1 90
25-lb. tins	1 80
12½ lb. tins	2 05
Bladders in bulk or tins less than 100 lb.	1 85

VARNISHES.

	In 5-gal. lots.	Per gal.	Net.
Carriage, No. 1		1 50	1 60
Pale durable body		4 10	4 25
" rubbing		2 85	3 20
Gold size, japan		1 50	1 60
No. 1 brown japan		0 85	0 90
Elastic oak			1 50
Furniture, extra		1 10	1 25
" No. 1		0 90	1 00
Hard oil finish		1 35	1 50
Light oil finish		1 60	1 70
Damar		1 75	2 00
Shellac, white		2 40	2 50
" orange		2 30	2 40
Turpentine, brown japan		1 10	1 20
" black japan		1 10	1 20
" " No. 1.		0 85	0 90
Elastilite varnish, 1 gal. can, each			2 00
Granitine floor finish, per gal			2 75

Maple Leaf coach enamels; size 1, $1.20; size 2, 70c.; size 3, 40c. each.
Sherwin-Williams' kopal varnish, assorted case, from to 1 gal., $2.50.

GLUE.

Common	0 08 0 08½
French medal	0 10 0 14
White, extra	0 18 0 22
Gelatine	
Strip	0 18 0 20
Coopers	0 19 0 20
Huttner	
Ground	0 12 0 16
Cologne, genuine	

HARDWARE.

AMMUNITION.

Cartridges.

B. B. Caps Dominion, 50 and 5 and 25 per cent. American $2.00 per 1000.
C. B. Caps American, $2.60 per 1000.
Rim Fire Pistol, discount 30 p.c., American.
Rim Fire Cartridges, Dominion, 50 and 5 p.c.
Central Fire, Military and Sporting, American, add 20 per cent. to list. B.B. Caps, discount 40 per cent., American.
Central Fire Pistol and Rifle, list net Amer.
Central Fire Cartridges, pistol sizes, Dominion, 30 per cent.
Central Fire Cartridges, Sporting and Military, Dominion, 15 per cent. American 10 per cent. advance on list.
Loaded and empty Shells, "Trap" and "Dominion" grades, 25 per cent. discount. American 20 per cent. discount. Rival and Nitro, 10 per cent. advance on list.
Brass Shot Shells, 55 per cent.
Primers, Dom., 30 per cent.; American, $1.75

Wads.	per lb.
Best thick brown or grey felt wads, in ½-lb. bags	$0 70
Best thick white card wads, in boxes of 500 each, 12 and smaller gauges	0 29
Best thick white card wads, in boxes of 500 each, 10 gauge	0 35
Thin card wads, in boxes of 1,000 each, 12 and smaller gauges	0 20
Thin card wads, in boxes of 1,000 each, 10 gauge	0 25

Chemically prepared black edge grey cloth wads, in boxes of 250 each—

	Per M.
11 and smaller gauge	0 60
9 and 10 gauges	0 70
7 and 8 "	0 90
5 and 6 "	1 10

Superior chemically prepared pink edge, best white cloth wads, in boxes of 250 each—

11 and smaller gauge	1 15
9 and 10 gauges	1 40
7 and 8 "	1 65
5 and 6 "	1 90

ADZES.

Discount 22½ per cent.

ANVILS.

Wright's, 80-lb. and over	0 10½
Hay Budden, 80-lb. and over	0 09½
Brook's, 80-lb. and over	0 11½

APPLE PARERS.

Woodyatt Hudson, per doz., net	4 50

AUGERS.

Gilmour's, discount 60 per cent. off list.

AXES.

Chopping Axes	
Single bit, per doz.	7 00 10 00
Double bit, "	10 00 18 00
Bench Axes, 40 per cent.	
Broad Axes, 25 per cent.	
Hunters' Axes	5 50 6 00
Boys' Axes	6 25 7 00
Splitting Axes	7 00 12 00
Handled Axes	10 00

AMERICAN AXE AND TOOL CO.

Red Ridge, boys', handled	5 75
" hunters	5 25
Underhill American Bench Axes, 40 p.c.	

AXLE GREASE.

Ordinary, per gross	6 00 7 00
Best quality	10 00 12 00

BELLS.

Hand.

Brass, 60 per cent.
Nickel, 55 per cent.

Cow.

American make, discount 63⅓ per cent.
Canadian, discount 45 and 50 per cent.

Door.

Gongs, Sargant's	5 50 8 00
" Peterboro', discount 50 and 10 per cent. off new list.	

Farm.

American, each	1 35 3 00

House.

American, per lb.	0 35 0 40

BELTING.

Extra, 60 per cent.
Standard, 60 and 10 per cent.
No. 1, not wider than 6 in., 60, 10 and 10 per cent.
Agricultural, not wider than 4 in., 75 per cent.

BITS.

Auger.

Gilmour's, discount 60 per cent.
Rockford, discount 50 and 10 per cent.
Jennings' Gen., net list.

Car.

Gilmour's, 47½ per cent.

Expansive.

Clark's, 40 per cent.

Gimlet.

Clark's, per doz	0 65 0 90
Diamond, Shell, per doz.	1 00 1 50
Nail and Spike, per gross	2 25 5 20

BLIND AND BED STAPLES

All sizes, per lb.	0 07½ 0 12

BOLTS AND NUTS

	Per cent.
Carriage Bolts, common ($1 list	
" " ⅜ and smaller	60 and 10
" " 7-16 and up	55 and 5
" " full sq. ($2.40 list)	60
" " Norway Iron ($3 list)	60
Machine Bolts, all sizes, ⅜ and less	55
Machine Bolts, 7-16 and up	55 and 5
Plough Bolts	55 and 5
Blank Bolts	55 and 5
Bolt Ends	55 and 5
Sleigh Shoe Bolts	70
Coach Screws, cone point	70 and 5

Nuts, square, all sizes, 4c. per lb. off.
Nuts, hexagon, all sizes, 4½c. per lb. off.
Stove Rods per lb., 5½ to 6c.

BOOT CALKS.

Small and medium, ball	per M. 4 25
Small heel	" 4 50

BRIGHT WIRE GOODS

Discount 62½ per cent.

BUTCHERS' CLEAVERS.

German	per doz. 6 00 9 00
American	" 12 00 18 00

BUTCHER KNIVES.

Bailey's	per doz. 0 60 6 30

BUILDING PAPER, ETC

Tarred Felt, per 100 lb.	1 85
Ready roofing, 2-ply, not under 45 lb. per roll	0 90
Ready roofing, 3-ply, not under 65 lb., per roll	1 15
Carpet Felt	per ton 45 00
Heavy Straw Sheathing	per ton 35 00
Dry Sheathing	per roll, 400 sq. ft. 0 40
Tar " " 400 "	0 50
Dry Fibre " 400 "	0 40
Tarred Fibre " 400 "	0 50
O. K. & I. X. L. " 400 "	0 70
Resin-sized " 400 "	0 45
Oiled Sheathing " 600 "	1 00
Oiled " " 400 "	0 70
Root Coating, in barrels	per gal. 0 17
Roof " small packages "	0 25
Refined Tar	per barrel 5 00
Coal Tar "	4 00
Coal Tar, less than barrels	per gal. 0 15
Roofing Pitch	per 100 lb. 0 90
Slater's felt	per roll 0 60

BULL RINGS.

Copper, $1.30 for 2½-inch, and $1.70

BUTTS.

Wrought Brass, net revised list.

Cast Iron.

Loose Pin, discount 60 per cent

Wrought Steel.

Fast Joint, discount 70 to 70 and 5 per cent.
Loose Pin, discount 70 to 70 and 5 per cent.

CARPET STRETCHERS.

American	per doz. 1 00 1 50
Bullard's	" 6 50

CASTORS.

Bed, new list, discount 55 to 57½ per cent.
Plate, discount 52½ to 57½ per cent.

CATTLE LEADERS.

Nos. 32 and 33	per gross 7 50 8 50

CHALK.

Carpenters' Colored, per gross	0 45 0 75
White lump	per cwt. 0 60 0 65
Red	0 05 0 06
Crayon	per gross 0 14 0 18

CHISELS.

Socket, Framing and Firmer.

Broad's, discount 70 and 5 per cent.
Warnock's, discount 70 per cent.
P. S. & W. Extra, discount 60 and 10 per cent.

FOODS—STOCK.

Colonial Stock Foods, 50c. packages,	per doz $4 00
" " " 25c. pkgs.,	2 00
" " " 10c. " "	75
" " " 25-lb. pail, each	1 80
Poultry Foods, 25c. packages	1 25
Cough Powders, per doz.	1 25
Worm " "	1 25
Internation 1 Stock Foods, $1 packages, per doz.	8 00
International Stock Foods, per pail	2 75
" " " per bbl.	10 50
" Poultry " $1 pkgs., per doz	8 00
" Worm Powders, 50c. pkgs.	4 00
" Pine Healing Oil, per doz	8 00
" Pheno Chloro, $1 pkgs., per doz	8 00
" Hoof Ointment	8 00
" Compound Absorbent	16 00

Also 25c. pkgs. at $2 per doz. 50c. pkgs. 4 per doz

CLOTHES REELS.

Davis Clothes Reels, 3 lbs. 40 per cent

Paterson's Wire Edged Ready Roofing

Fire-proof and Sanitary:
Easy to put on:
Hard to wear out:
Don't cost much.

You have hundreds of Customers who require that kind of Roofing Material.

The Paterson Mfg. Co., Limited

Toronto and Montreal.

CONDUCTOR PIPE.

Plain or Corrugated.

2-inch	per 100 feet	3 00
3 "	" "	4 00
4 "	" "	5 25
5 "	" "	6 75
6 "	" "	9 00

CRADLES, GRAIN.

Canadian, discount 20 to 25 per cent.

CROSSCUT SAW HANDLES.

S. & D., No. 3	per pair	0 15
S. & D., " 5	"	0 22½
S. & D., " 6	"	0 15
Boynton pattern	"	0 20

DOOR SPRINGS.

Torrey's Rod	per doz.	1 75
Coil, 9 to 11 in	"	0 95 1 65
English	"	2 00 4 00

DRAW KNIVES.

Coach and Wagon, discount 50 per cent.
Carpenters' discount 70 per cent.

DRILLS.

Hand and Breast.

Millar's Falls, per doz., net list.

DRILL BITS.

Morse, discount 37½ to 40 per cent.
Standard, discount 50 and 5 to 55 per cent.

FAUCETS.

Common, cork-lined, discount 35 per cent.

EAVETROUGHS.

10-inch	per 100 ft.	10 00

ELBOWS (stovepipe.)

5 and 6-inch, common	per doz.	1 20
7-inch	"	1 35

Polished, 15c. per dozen extra.

ESCUTCHEONS.

Discount 50 and 10 per cent., new list

ESCUTCHEON PINS.

Iron, discount 40 per cent.

FACTORY MILK CANS.

Discount off revised list, 40 per cent.

FILES AND RASPS.

Great Western	70 and 10	per cent.
Arcade	70 " 10	"
Kearney & Foot	70 " 10	"
Disston's	70 " 10	"
American	70 " 10	"
J. Barton Smith	70 " 10	"
McClellan	70 " 10	"
Eagle	70 " 10	"
Nicholson, 60 and 10 to 60, 10 and 5		"
Royal	80	"
Globe	70 to 75	"

Black Diamond, 60 and 10 to 60, 10 and 5 per cent.
Jowitt's, English list, 25 to 27½ per cent.
Nicholson File Co.'s "Simplicity" file handle, per gross 85c. to $1.50

GLASS.

Window. Box Price.

Size United Inches.	Star Per 50 ft.	Star Per 100 ft.	D. Diamond Per 50 ft.	D. Diamond Per 100 ft.
Under 26	....	3 80	....	5 06
26 to 40	....	4 00	....	5 44
41 to 50	....	4 50	....	6 56
51 to 60	....	4 75	....	7 50
61 to 70	....	5 00	....	8 62
71 to 80	....	5 30	....	9 38
81 to 85	....	....	....	10 75
86 to 90	....	....	....	12 30
91 to 95	....	....	....	15 00
96 to 100	....	....	....	18 00
96 to 100	....	....	....	18 00

GAUGES.

Marking, Mortise, Etc.

Stanley's, discount 50 to 55 per cent.

Wire Gauges.

Winn's, Nos. 26 to 33	each	1 65 2 40

GILLETT'S POWDERED LYE.

1-case, $3.70; 3-case, $3.60; 5-case and over, $3.50.

HALTERS.

Rope, ⅜-inch	per gross	....	9 00
Rope, ½ "	"	....	12 00
Rope, ⅝ to ¾-inch	"	....	14 00
Leather, 1-inch	per doz.	....	4 00
Leather, 1¼ "	"	....	5 20
Web	"	....	2 45

HAMMERS.

Nail.

Maydole's, discount 5 to 10 per cent. Canadian discount 25 to 27½ per cent.

Tack.

Magnetic	per doz.	1 10 1 20

Sledge.

Canadian	per lb.	0 07 0 08½

Ball Pean.

English and Canadian, per lb.		2½ 2 25

HANDLES.

Axe, 2nd growth, per doz. net		3 00 4 00
Store door	per doz.	1 00 1 50

Fork.

C. & B., discount 40 per cent., revised list.

Hoe.

C. & B., discount 40 per cent., revised list.

Saw.

American	per doz	1 00 1 25

Plane.

American	per gross	3 15 3 75

Hammer and Hatchet.

Canadian, discount 40 per cent.

HANGERS.

	doz.	pairs.
Steel barn door	8 00	10 00
Stearns, 4-inch	....	4 50
" 5-inch	....	6 00
Zenith	....	9 00
Lane's covered—		
No. 11, 5-foot run	....	8 40
No. 11½, 10-foot run	....	10 80
No. 12, 10-foot run	....	12 60
No. 14, 15-foot run	....	21 00
Steel, covered	4 00	11 00
" track, 1 x 3-16 in(100 ft)	....	3 75
" " 1¼ x 3-16 in(100 ft)	....	4 75

HARVEST TOOLS.

Discount 60 per cent.
S. & D. lawn rakes, Dunn's, 40 off.
" sidewalk and stable scrapers, 40 off.
" Maple Leaf and Premiums saw sets, 40 off.
" saw swages, 40 off.

HATCHETS.

Canadian, discount 40 to 42½ per cent.		
Shingle, Red Ridge 1, per doz		4 40
" " 2, "		4 85
Barrel, Underhill		5 00

HAT ENAMEL.

Henderson & Potts' 'Anchor Brand"

HINGES.

Blind, Parker's, discount 60 per cent.		
Heavy T and strap, 4-in., per lb		0 06½
" 5-in., "		0 06½
" " 6-in., "		0 06
" " 8-in., "		0 05½
" " 10-in., "		0 05½
Light T and strap, discount 65 and 5 per cent.		
Screw hook and hinge—		
6 to 10 in	per 100 lb.	4 50
12 in. up	"	3 25
Spring, No. 20, per gro. pairs	....	10 80
Spring, Woodyatt pattern, per gro., No. 5, $17.50; No. 10, $18; No. 20, $10.80; No. 120, $20; No. 51, $10; No. 50, $27.50.		

HOES.

Garden, Mortar, etc., discount 60 per cent.

Planter	per doz.	4 00 4 50

HOLLOW WARE.

Tinned cast, 35 per cent.

HOOKS.

Cast Iron.

Bird cage	per doz.	0 50 1 10
Clothes line, No. 61	"	0 00 0 70
Harness	"	0 60 12 00
Hat and coat	per gro.	1 10 10 00
Chandelier	per doz.	0 50 1 00

Wrought Iron.

Wrought hooks and staples Canadian discount 60 per cent.

Wire.

Hat and coat, discount 60 per cent.

Belt	per M	.... 0 60
Screw, bright, discount 62½ per cent.		

HORSE NAILS.

"P.B." Brand, 55 to 60 per cent.
"C" brand, 40, 10 and 7½ per cent. off list { Oval head
M.R.M. Co. brand, 55 per cent.
"Monarch," 50 and 7½ per cent.
"Peerless" 50 per cent. dis.

HORSESHOES.

F.O.B. Montreal.

"P.B." brand, new pattern, base		$3 50
M.R.M. Co. brand, base		3 65

Add 15c. Toronto, Hamilton, Guelph.

JAPANNED WARE.

50 per cent.

PICKS.

Star	per doz.	3 00 3 25

KETTLES.

Brass spun 7½ per cent. discount off new list.

Copper	per lb.	0 30 0 50

American, 60 and 10 to 65 and 5 per cent.

KEYS.

Lock, Canadian dis. 40 to 40 and 10 per cent.

Cabinet trunk and padlock American	per gross	.... 0 60

KNOBS.

Door, japanned and N.P., per doz		1 50 2 50
Bronze, Berlin	per doz.	2 75 3 25
Bronze, Genuine	"	6 00 9 00
Shutter, porcelain, F. & L. screw	per gross	1 30 2 00
White door knobs	per doz.	.... 2 00

HAY KNIVES.

Net prices.

LAMP WICKS.

Discount, 60 per cent.

LADDERS, EXTENSION.

Waggoner Extension Ladders, dis. 40 per cent.

LANTERNS.

Cold Blast	per doz.	4 50
No. 3, "Wright's"	"	8 50
Ordinary, with O burner	"	4 00
Dashboard, cold blast	"	9 00
No. 0	"	5 75

Japanning, 50c. per doz. extra.

LEMON SQUEEZERS.

Porcelain lined	per doz.	2 20 5 60
Galvanized	"	1 87 3 85
King, wood	"	2 75 2 90
King, glass	"	4 00 4 50
All glass	"	0 50 0 90

LAWN MOWERS FOR 1905.

Woodyatt, 10½-in., 14-in. cut		$ 8 50 to $11 00
Star, 9 -in.	"	6 00 to 6 50
Daisy, 8 -in.	"	5 25 to 5 75
Philadelphia, 7½-in.	"	6 00 to 7 50
Woodyatt, 10½-in., ball bearing		13 25 to 18 00
Grass Boxes		1 75 to 2 00
King Edw'd, 12-in., 14-in. cut		9 00 to 10 00

Horse Lawn Mowers, "Special."

Discount, 50 per cent., with freight concessions in quantity shipments.

Maxwell & Sons

10½-in. high wheel	0	10 00
9-in	5 50	6 25
8-in	4 90	5 50

Discount 50 per cent.

LOCKS.

Canadian, 50 to 50 and 10 per cent.

Russell & Erwin, steel rim	...per doz.	2 25

Cabinet.

Eagle, discount 30 per cent.

Padlocks.

English and Am.	per doz.	0 50 6 00

Eagle, discount 20 to 25 per cent.

MACHINE SCREWS.

Iron and Brass.

Flat head, discount 25 per cent.
Round head, discount 20 per cent.

MALLETS.

Tinsmiths'	per doz.	1 25 1 50
Carpenters', hickory,	"	1 25 3 75
Lignum Vitae	"	3 85 5 00
Caulking, each		0 60 2 00

MATTOCKS.

Canadian	per doz.	5 50 6 00

MEAT CUTTERS.

American, discoun 3½ per cent.
German, 15 per cen
Gem ..... each 1 15

MILK CAN TRIMMINGS.

Discount 25 per cent.

NAILS.

	Cut.	Wire.
2d	3 40	3 25
3d	3 05	2 90
4 and 5d	2 80	2 65
6 and 7d	2 70	2 55
8 and 9d	2 55	2 40
10 and 12d	2 50	2 35
16 and 20d	2 45	2 30
30, 40, 50 and 60d (base)	2 40	2 25

F.o.b. Toronto.
Steel cut nails 10c. extra.
Miscellaneous wire nails, discount 75 per cent.
Coopers' nails, discount 30 per cent.

NAIL PULLERS.

German and American	85	2 50
No. 1	85	
No 1573	75	

NAIL SETS.

Square, round and octagon, per gross	3 38	
Diamond	1 00	

POULTRY NETTING.

2-in. Mesh, 19 w.g., dis. 50 per cent.
2-in. Mesh 16 w.g. 60 per cent.
Smaller than 2 in. dis. 55 per cent.

OAKUM.

U. S. Navy	per 100 lb.	6 75
Plumbers	"	3 00

OILERS.

McClary's Model galvanized oil can, with pump, 5 gallon, per dozen	....	10 00

Davidson oilers, discount 40 per cent.
Zinc and tin, discount 50, 50 and 10 per cent.

Copper	per doz.	1 25 3 50
Brass	"	1 50 3 50

Malleable, discount 25 per cent

GALVANIZED PAILS.

Dufferin pattern pails, discount 47½ per cent
Flaring pattern, discount 47½ per cent.
Galvanized washtubs, discount 47½ per cent.

PIECED WARE.

Discount 40 per cent off list, June, 1899.
10-qt. flaring sap buckets, discount 40 per cent
6, 10 and 14-qt. flaring pails dis. 40 per cent.
Creamer cans, discount 40 per cent.

PICKS.

Per dozen		6 00 9 00

PICTURE NAILS.

Porcelain head	per gross	1 35 1 50
Brass head	"	0 40 1 00

PICTURE WIRE.

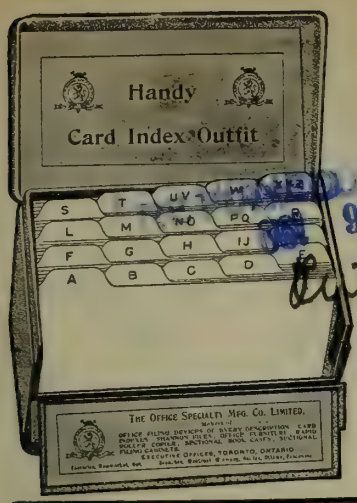
Tin and gilt, discount 75 per cent.

PINE TAR.

1 pint in tins	per gross	7 80
1 " "	"	9 60

PLANES.

Wood bench, Canadian discount 40 per cent.
American discount 50 per cent.
Wood, fancy Canadian or America 37 40 per cent



A BARGAIN IN CARD INDEX SYSTEM

Just to show you what can be accomplished by our card system we make you this offer for $1.00.

1 Cloth Box
150 Ruled Linen Cards
1 set Daily Guides, 1-31
1 set Monthly Guides, Jan. to Dec.
} All for $1.

Use this on your desk as an automatic memory, and we venture to say if you do not use our card system now, you will after you note the effects. Send for one now.

FULL LINE OF BUSINESS FURNITURE IN STOCK.

THE OFFICE SPECIALTY MFG. CO., Limited

Factories, NEWMARKET. 97-105 Wellington St. (near York), TORONTO

PLANE IRONS.

English ....per doz. 2 00 5 00

PLIERS AND NIPPERS.

Button's genuine, per doz. pairs, discount 37½ to 40 per cent.
Button's imitation....per doz. 5 00 9 00
German ..... " 0 60 0 60

PRESSED SPIKES.

Discount 20 per cent.

PULLEYS.

Hothouse ....per doz. 0 55 1 00
Axle .... " 0 22 0 33
Screw .... " 0 22 1 00
Awning .... " 0 35 2 50

PUMPS.

Canadian cistern 1 80 3 60
Canadian pitcher spout 1 40 2 10

PUNCHES.

Saddler s .....per doz. 1 00 1 85
Conductor's..... " 3 00 15 00
Finners', solid.....per set 0 72
" hollow.....per inch 1 00

RAKES.

Wood.....per doz. net 1 20 up.

RAZORS.

	per doz.	
Elliot's	4 00	18 00
Geo. Butler's & Co.'s.....	4 00	18 00
Boker's	7 50	11
" King Cutter	13 50	18 50
Wade & Butcher's.....	3 60	10 00
Carbo Magnetic.....	....	15 00
Griffon Barber's Favorite	....	10 75
Griffon No. 65.....	....	13 00
Griffon Safety Razors.....	....	13 50
Griffon Stropping Machines..	....	13 50
Lewis Bros " Klean Kutter"	8 50	10 50
Hindoo	10 50	14 00
Orgsteom's Swedish.....	3 50	10 00
Henckel's	7 50	20 00

Clauss, 50 and 10 per cent.
Clauss Strops, 50 and 10 per cent.

REGISTERS.

Discount 40 per cent.

RIVETS AND BURRS.

New List.

Iron Rivets, black and tinned, 60 and 10 and 10 per cent.
Iron Burrs, discount 60 and 10 and 10 p.c.
Copper Rivets, with usual proportion burrs, 45 per cent.
Copper Burrs only, discount 30 and 10 per cent.
Extras on Tinned or Coppered Rivets, ½-lb. packages 1c. per lb.; ¼-lb. packages 2c. lb.

RIVET SETS.

Canadian, discount 35 to 37½ per cent.

ROPE, ETC.

Sisal..... 0 11
Pure Manilla..... 0 14½
"British" Manilla..... 0 11
Cotton, 3-16 inch and larger 0 21 0 23
" 5-32 inch 0 25 0 27
" ¼ inch 0 25 0 28
Russia Deep Sea 0 16
Jute..... 0 09
Lath Yarn, single 0 10
" double 0 10½
Sisal bed cord, 48 feet.....per doz. 0 65
" " 60 feet..... " 0 80
" " 72 feet..... " 0 95

RULES.

Boxwood, discount 70 per cent.
Ivory, discount 20 to 25 per cent.

SAD IRONS.

Mrs. Potts, No. 55, polished....per set 0 75
" No. 50, nickle-plated, " 0 80
Common, plain..... 4 50
" plated 5 50

SAND AND EMERY PAPER.

B. & A. sand, discount, 40 and 5 per cent
Emery, discount 40 per cent.
Garnet (Rurton's). 5 to 10 per cent. advance on list.

SAP SPOUTS.

Bronzed iron with hooks ....per 1,000 7 50
" Eureka " tinned steel, hooks " 8 00

SAWS.

Hand, Disston's, discount 12½ per cent
S. & D., discount 40 per cent.
Crosscut, Disston's....per foot 0 35 0 55
J. & D., discount 35 per cent. on Nos. 2 and 3.
Hack, complete.....each 0 75 2 75
" frame only.....each 0 50 1 25
S & D. solid tooth circular shingle, concave and band, discount 50 per cent.
" mill and ice, drag, discount 30 per cent
" cross-cut, discount 35 per cent.
" hand saws, butcher, disc't 40 per cent
" compass, pruning and back, discount 45 per cent.
" buck, New Century.....$6 25
" " No. 1 Maple Leaf..... 5 25
" " Happy Medium..... 4 25
" " Watch Spring..... 4 25
" " common frame..... 4 00

SASH WEIGHTS.

Sectional.....per 100 lb. 2 00 2 25
Solid ..... " 1 50 1 75

SASH CORD.

Per lb..... 0 28 0 30

SAW SETS.

per doz.

Lincoln and Whiting 4 75
Hand Sets, Perfect 4 00
X-Cut Sets, " 7 50

SCALES.

Gurney Standard, 40 per cent.
Gurney Champion, 50 per cent.
Burrow, Stewart & Milne—
Imperial Standard, discount 40 per cent.
Weigh Beams, discount 35 per cent.
Champion Scales, discount 50 per cent.
Fairbanks standard, discount 35 per cent.
" Dominion, discount 55 per cent.
" Richelieu, discount 55 per cent.
Warren's new Standard, discount 40 per cent.
" " Champion, discount 50 per cent.
" Weighbeams, discount 35 per cent.

SCREW DRIVERS.

Sargent's .....per doz. 0 65 1 00

SCREEN DOORS.

Common doors, 2 or 3 panel, walnut stained, 4-in. style.....per doz. 6 50
Common doors,2 or 3 panel, yellow and green stained, 4-in. style....per doz. 6 75
Common doors, 2 or 3 panel, in natural colors, oil finish .....per doz. 8 75
3-in. style 20c. per dozen less.

SCREWS.

Wood, F. H., bright and steel, discount 87½ per cent.
Wood, R. H., bright, dis. 82½ per cent.
" F. H., brass, dis. 80 per cent.
" R. H., " dis. 75 per cent.
" F. H., bronze, dis. 75 per cent.
" R. H., " dis. 70 per cent.
Drive Screws, dis. 87½ per cent.
Bench, wood .....per doz. 3 25 4 00
" iron ..... " 4 25 5 00
Set, case hardened, dis. 60 per cent.
Square Cap, dis. 50 and 5 per cent.
Hexagon Cap, dis. 45 per cent.

SCYTHES.

Per doz. net..... 6 00 9 00

SCYTHE SNATHS.

Canadian, discount 40 per cent.

SHEARS.

Clauss, nickel, discount 80 per cent.
Clauss, Japan, discount 67½ per cent.
Clauss, tailors, discount 40 per cent.
Seymour's, discount 50 and 10 per cent.

SHOVELS AND SPADES.

Canadian, discount 45 per cent.

SINKS.

Cast iron, 16 x 24..... ... 0 85
" 18 x 30..... .... 1 00
" 18 x 36..... .... 1 40

SNAPS.

Harness, German, discount 25 per cent.
Lock, Andrews' 4 50 11 50

SOLDERING IRONS.

1, 1½-lb..... per lb. 0 37
2-lb. or over ..... " 0 34

SQUARES.

Iron, No. 492 .....per doz. 1 90 2 25
" No. 493 ..... " 2 40 2 55
" No. 494 ..... " 3 25 3 40
Steel, discount 60 and 5 to 65 per cent.
Try and Bevel, discount 50 to 52½ per cent.

STAMPED WARE.

Plain, discount 75 and 12½ per cent. off revised list.
Retinned, discount 75 per cent. off revised list

STAPLES.

Galvanized 3 00
Plain 2 80
Coopers', discount 45 per cent.
Poultry netting staples, discount 40 per cent.

STOCKS AND DIES.

American discount 25 per cent.

STONE.

Washita .....per lb. 0 28 0 60
Hindostan ..... " 0 06 0 07
" slip ..... " 0 09 0 09
Labrador..... " 0 13
" Axe..... " 0 15
Turkey ..... " 0 50
Arkansas..... " 1 50
Water-of-Ayr ..... " 0 10
Scythe .....per gross 3 50 5 00
Grind, 40 to 200 lb., per ton.... .... 25 00
" under 40 lb., " 28 00
" 200 lb. and over 31 00

STOVEPIPES.

5 and 6 inch, per 100 lengths 7 00
7 inch..... " " 7 50

TACKS, BRADS, ETC.

Carpet tacks, blued ..... 80 and 5
" " tinned..... 80 and 20
" " (in kegs)..... 40
Cut tacks, blued, in dozens only 80
" ¼ weights 60
Swedes cut tacks, blued and tinned—
In bulk..... 80 and 10
In dozens 75
Swedes, upholsterers', bulk....85, 12½ and 12½
" brush, blued and tinned bulk 70
Swedes, gimp, blued, tinned and japanned..... 75 and 12½
Zinc tacks 35
Leather carpet tacks..... 55
Copper tacks..... 50
Copper nails 52½
Trunk nails, black ..... 65 and 5
Trunk nails, tinned..... 65 and 10
Clout nails, blued ..... 65 and 5
Chair nails..... 35
Patent brads..... 40
Fine finishing..... 40
Lining tacks, in papers..... 10
" " in bulk..... 15
" " solid heads, in bulk 75
Saddle nails, in papers..... 10
" " in bulk..... 15
Tufting buttons, 22 line, in dozens only 60
Zinc glaziers' points 5
Double pointed tacks, papers.. 90 and 10
" " bulk.... 40
Clinch and duck rivets..... 45

TAPE LINES.

English, ass skin.....per doz. 2 75 5 00
English, Patent Leather 5 50 9 75
Chesterman's.....each 0 90 2 85
" steel.....each 0 80 8 00

TINNERS' SNIPS.

Per doz..... 3 00 15 00
Clauss, discount 35 per cent.

THERMOMETERS.

Tin case and dairy, 75 to 75 and 10 per cent.

TRAPS (steel.)

Game, Newhouse, discount 25 per cent.
Game, H. & N., P. S. & W., 45 and 5 per cent.
Game, steel, 60 and 5 per cent.

TROWELS.

Disston's, discount 10 per cent.
German.....per doz. 4 75 6 00
S. & D., discount 35 per cent.

TWINES.

Bag, Russian .....per lb. 0 27
Wrapping, cotton, 3-ply 0 24
" " 4-ply 0 27
Mattress .....per lb. 0 33 0 45
Staging..... " 0 27 0 35

VISES.

Wright's..... .... 0 13½
Brook's..... .... 0 12½
Pipe Vise, Hinge, No. 1..... .... 3 50
" " " No. 2..... .... 5 50
Saw Vise..... ..... 4 50 9 00

Columbia Hardware Co.
Blacksmiths' (discount) 60 per cent.
" parallel (discount) 45 per cent

ENAMELLED WARE.

White, Princess, Turquoise, Blue and White discount 50 per cent.....
Diamond, Famous, Premier, discount 50 and 10 per cent.....
Granite or Pearl, Imperial, Crescent, discount 50, 10 and 10 per cent.
Premier steel ware, 40 per cent.
" Star " decorated steel and decorated whit 25 per cent.

WIRE.

Smooth Steel Wire.

No. 0-9 gauge.....		$2 15
10 "	6c.	extra.
11 "	12c.	"
12 "	20c.	"
13 "	30c.	"
14 "	40c	"
15 "	55c.	"
16 "	70c.	"

Add 60c. for coppering and $2 for tinning.
Extra net per 100 lb.—Oiled wire 10c. spring wire $1.25, special hay baling wire 30c. best steel wire 75c., bright soft drawn 15c., charcoal (extra quality) $1.25, packed in casks or cases 15c., bagging and papering 10c., 50 and 100-lb. bundles 10c., in 25-lb. bundles 15c., in 5 and 10-lb. bundles 25c., in 1-lb. hanks, 50c., in ½-lb. hanks 75c., in ¼-lb. hanks $1.
Fine Steel Wire, discount 27½ per cent. List of extras: In 100-lb. lots: No. 17, $5—No. 18, $5.50—No. 19, $6—No. 20, $6.65—No. 21, $7—No. 22, $7.30—No 23, $7,65—No. 24, $8—No. 25, $9—No. 26, $9.50—No. 27, $10—No. 28, $11—No. 29, $12—No. 30, $13—No.31, $14—No. 32, $15—No. 33, $16—No. 34, $17. Extras net—tinned wire, Nos. 17-25, $2—Nos. 26-31, $4—Nos. 32-34, $6. Coppered, 5c.—oiling, 10c.—in 25-lb. bundles,15c.—in 5 and 10-lb. bundles, 25c.—in 1-lb. hanks, 25c. —in ½-lb. hanks, 38c.—in ¼-lb. hanks, 50c.—packed in casks or cases, 15c.—bagging or papering, 10c.
Brass wire, discount 60 per cent. off the list.
Copper wire, discount 60 per cent. net cash 30 days, f.o.b factory.
Galvanized wire, per 100 lb.—Nos. 4 and 5, $3.70 to $3.70—Nos. 6, 7, 8, $3.15 to $3.15—No. 9, $2.55 — No. 10, $3.20 to $3.20—No. 11, $3.25 to $3.25 — No. 12, $2.65—No. 13, $2.75—No. 14. $3.75 to $3.75—No 15, $4.30—No. 16. $4.30. Base sizes, Nos. 6 to 9, $2.37½ f.o.b. Cleveland. In carlots 12½c. less.
Clothes Line Wire, 7 wire solid line, No. 17. $4.90; No. 18, $3.00; No. 19, 2.70; 6 wire solid line, No. 17, $4.45; No. 18, $2.80; No. 19, $2.50. All prices per 1000 ft. measure. F.o.b. Hamilton, Toronto, Montreal.

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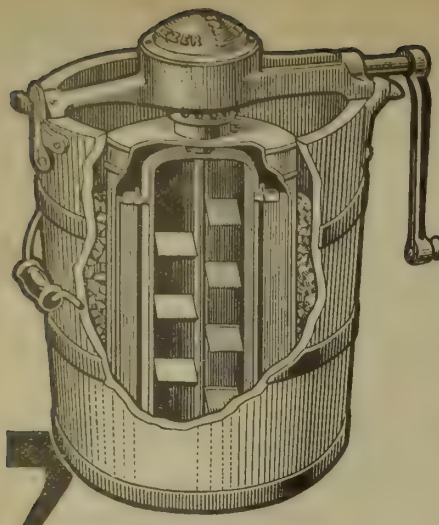
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INDEX TO ADVERTISERS.

A

Acme Lathe & Products Co 47
Atkins, E. C., & Co 55
American Shearer Mfg. Co 21
American Steel and Wire Co 59
Armstrong Bros 45
Atlas Mfg. Co 56
Australasian Hardware..inside back cover

B

Barnett, G. & H., Co....outside back cover
Bartlett, Wm., & Son 54
Berry Bros 43
Birkett, Thos., & Son Co. 1
Boss Machine Co 28
Bosson Bros 56
Bradstreet's 64
Brantford Cordage Co 64

C

Canada Brass Rolling Mills 25
Canada Foundry Co 48
Canada Iron Furnace Co 32
Canada Paint Co 46
Canada Paper Co 51
Canadian Aluminum Works 41
Canadian Fairbanks Co 4
Canadian Rubber Co 12
Canadian Sewer Pipe Co 56
Clauss Shear Co 48
Consumers' Cordage Co 11
Consolidated Plate Glass Co 45
Contract Record 56
Covert Mfg. Co 6
Cutts, C. M. & Co 51

D

Davidson, Thos., Mfg. Co 2
Deseronto Iron Co 33
Dods, P. D., & Co 45
Dominion Wire Mfg. Co. 7
Dorken Bros. ....outside front cover, 6, 49
Dowswell Mfg. Co 47

E

Enterprise Mfg. Co 27
Enterprise Mfg. Co., of Akron, Ohio ... 39
Erie Specialty Co 64

F

Falkiner, H. F 50
Ferrosteel Co 26
Foster Pottery Co 50
Frothingham & Workman 9

G

Gelinas, Fred 51
Gibb, Alexander 20, 47
Gies, Philip 21
Gilbertson, W., & Co 47
Glauber Brass Co 21
Greening, B., Wire Co 7
Grose, Walter 37
Grove Chemical Co 47
Gurney Foundry Co 25, 51
Gurney, Tilden Co 53
Gutta Percha and Rubber Mfg. Co....
outside back cover

H

Hanover Portland Cement Co 54
Harrington & Richardson Arms Co 48
Harris, W. G 6
Heinisch, R., Sons Co 10
Henderson, J. A 48
Henderson & Potts Co 44
Hobbs Mfg. Co 55
Howland, H. S., Sons & Co 17
Hyde, F. & Co 33

I

Imperial Steel and Wire Co 8
Imperial Varnish and Color Co 42

J

Jackson, C. F., & Co 33
Jardine, A. B., & Co 21
Jenking, A. C 54
Johnson's, Iver, Arms and Cycle Works 16
Johnston, Rd., Clapham & Morris. 6

K

Kemp Mfg. Co 12
Kerr Engine Co 20

L

Lamplough, F. W., & Co 41
Leslie, A. C., & Co 33
Lewis Bros. & Co. 3
Lewis, Rice, & Son ..... inside front cover
Lockerby & McComb 53
London Fence Machine Co 39
London Rolling Mill Co..inside back cover
Loughead, J. S., & Son 6
Lucas, John & Co 49
Lufkin Rule Co ..... inside back cover
Luxfer Prism Co 55
Lysaght, John. ..... outside front cover

M

Mackenzie Bros 37
Maple Leaf Harvest Tool Co 5
Mast, J. M., Mfg. Co 10
Maxwell, D., & Sons 6
Metal Shingle and Siding Co 37
Metallic Roofing Co 35
Montreal Rolling Mills Co 20
Morton, B. K., & Co 33
Morrison, James, Brass Mfg. Co 18
Morrow, John, Machine Screw Co 21

Mc

McArthur, Alex., & Co 58
McArthur, Corneille & Co. 43
McCaskill, Dougall & Co 47
McClary Mfg. Co 28
McDougall, R., Co 33
McGregor-Banwell Fence Co 50

N

Naturo Co 23
Newman, W., & Sons 54
North Bros. Mfg. Co 1
North West Machinery & Iron Co 20
Nova Scotia Steel and Coal Co 33

O

Oakey, John, & Sons 50
Office Specialty Mfg. Co 61
Oneida Community 9
Ontario Tack Co 14
Ontario Wind Engine and Pump Co .. 51
O-So-Ezy Mfg. Co 54
Owen Sound Wire Fence Co 7

Q

Queen City Oil Co 45

P

Page-Hersey Iron and Tube Co 21
Page Wire Fence Co 26
Paterson Mfg. Co 60
Pedlar People 53, 57
Penberthy Injector Co 23
Phillips, Chas. D 54

R

Ramsay, A., & Son Co 10, 23
Ross, J. A 10
Royal Paper Mills Co....inside back cover
Russell & Erwin Mfg. Co 9

S

Sadler & Haworth .....outside back cover
Samuel, M. & L., Benjamin, & Co 2
Sanderson-Harold Co 25
Scott, Greenwood & Co 45
Seymour, Henry T., Shear Co 10
Sharratt & Newth 10
Shaw, A., & Son 10
Sherwin-Williams Co 15
Silberstein, A. L., & Co 1
Silica Barytic Stone Co 56
Skedden Brush Co 43
Smart Jas., Mfg. Co 28
Smith & Hemenway Co 21
Solarine Metal Polish 50
Standard Ideal Sanitary Co 18
Standard Paint and Varnish Works... 45
Stauntons Limited 44
Stephens, G. F., & Co 36
Summers, John, & Sons 6

T

Taylor-Forbes Co. outside front cover, 52
Thompson, B. & S. H., Co ..... outside back cover
Thorne, R. E 20
Turnbull & Henderson 20

U

United States Register Co 23
Utica Drop Forge and Tool Co 21

W

Wallace Barnes Co 21
Walter, E. F., & Co 4
Welsh Tinplate & Metal Stamping Co. . 4
Western Wire Nail Co 10
White Lead Association 45
White Mountain Freezer Co 62
Wilcox Mfg. Co 26
Wilkinson Sword Co 64
Winnipeg Paint and Glass Co 37
Wright, E. T., & Co 51

CLASSIFIED LIST OF ADVERTISEMENTS.

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Canadian Aluminum Works Montreal.

Anvils
Taylor-Forbes Co., Guelph, Ont.

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Hobbs Mfg. Co., London, Ont.

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Canadian Portland Cement Co., Toronto
Hanover Portland Cement Co., Hanover, Ont.
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Foster Pottery Co., Hamilton, Ont.

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Jackson, C. F., & Co., Vancouver, B.C.
Morton, B. K., & Co., Sheffield, Eng.
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McClary Mfg. Co., London.
Ross, J. A., Winnipeg, Man.
Smart, Jas., Mfg. Co., Brockville, Ont.
Wright, E. T., & Co., Hamilton.

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Ontario Tack Co., Hamilton.
Peck Rolling Mills Co., Montreal.

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Dominion Wire Mnfg. Co., Montreal.
Greening, B., Wire Co., Hamilton.
Ironside, Son & Co., London, Eng.
McGregor-Banwell Fence Co., Walkerville, Ont.
Montreal Rolling Mills Co., Montreal.
Oneida Community, Niagara Falls.
Owen Sound Wire Fence Co., Owen Sound
Page Wire Fence Co., Walkerville, Ont.
Walter, E. F. & Co., Montreal.
Western Wire & Nail Co., London, Ont.
Wilcox Mfg. Co., London, Ont.

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Head Offices: 27 and 28 PALL MALL, S.W., **LONDON, England**

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MacLEAN PUBLISHING CO., Limited
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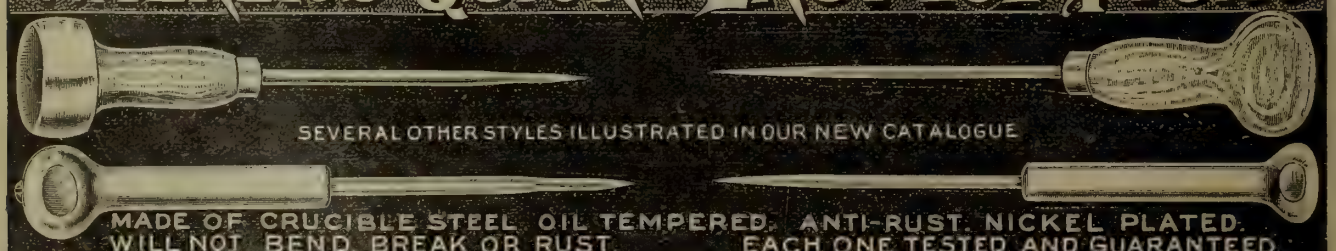
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MADE OF CRUCIBLE STEEL. OIL TEMPERED. ANTI-RUST. NICKEL PLATED.
WILL NOT BEND, BREAK OR RUST. EACH ONE TESTED AND GUARANTEED.

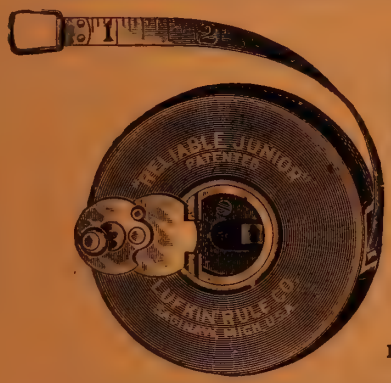
ERIE SPECIALTY COMPANY, ERIE, PA.

IRON

Bars in Flats, Rounds, Squares, Ovals, Half-Ovals, Half-Rounds and Bands. Also Wrought Washers.
GOOD QUALITY. PROMPT SHIPMENT.

London Rolling Mill Co.
Limited,
LONDON, CANADA.

STEEL



LUFKIN MEASURING TAPES

Steel, Metallic, Linen, Pocket, Ass Skin, Pat. Leather, Bend Leather, Etc.

ARE THE BEST AND MOST POPULAR TAPES IN THE WORLD.
YOUR STOCK IS NOT COMPLETE WITHOUT THEM.

LUFKIN RULE CO., Saginaw, Mich, U.S.A.

London Office and Warehouse—43 Lime St. New York City Branch—260 Broadway.

For sale by ALL PROMINENT CANADIAN HARDWARE JOBBERS.



Australasian Hardware and Machinery.

The Organ of the Hardware, Machinery and Kindred trades of the Antipodes.

SUBSCRIPTION $1.25 PER ANNUM,

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Specimen Copies Free on Application.

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WE ARE MANUFACTURERS OF

FIBRE

Our Specialties are

Fibres, Glazed Hardware and No. 1 Manilla.

ROYAL PAPER MILLS CO.,

EAST ANGUS, QUE.

Est. 1806. Inc. 1895.

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Twelve Medals



Awarded
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Special Prize
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Copy of catalogue sent free to any interested file user upon application.



WALTER GROSE, Montreal, SELLING AGENT FOR THE DOMINION.

The Fisk
Detachable Motor Tire

A tire that's firmly fastened to the rim in a simple and sensible way, so that you can attach it or remove it with an ordinary wrench, quickly and easily.

Even with the tire flat, you can travel on it safely—and not only that, but because of its peculiar construction you can do it with the least possible risk of injury to the tire.

There's more wear and less trouble with this tire than with any other on the market—and it's safe.

Manufactured in Canada solely by

THE GUTTA PERCHA & RUBBER MFG. CO.

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SHEET ZINC
INGOT COPPER
INGOT TIN

Prices from stock or to import on application to

B. & S. H. THOMPSON & Co.

LIMITED

53 St. Sulpice Street, MONTREAL

SADLER & HAWORTH

LEATHER BELTING

When a Leather Belt

is not satisfactory it is a costly nuisance. You can't afford to make mistakes. You run no risk when you buy our brands.

EXTRA DIAMOND

STANDARD AGRICULTURAL

Montreal, Toronto.

BUILDERS' HARDWARE EDITION.

HARDWARE AND METAL

A Weekly Newspaper devoted to the Hardware, Metal, Heating and Plumbing Trades in Canada.

VOL. XVII. MONTREAL AND TORONTO, MAY 13, 1905 NO. 19

POCKET KNIVES
H. BOKER & Cos
IMPROVED
TREE BRAND
TRADE MARK
RAZORS CUTLERY SCISSORS
FOR SALE BY LEADING WHOLESALE HARDWARE HOUSES.

Our shipments on first steamer from Bristol to Montreal are :—

1150 tons Galvanized Iron
275 tons Steel Sheets

making 10,000 packages and executing 245 separate orders

JOHN LYSAGHT, Limited, Makers, BRISTOL, ENG.
A. C. LESLIE & CO., MONTREAL Managers Canadian Branch



UNRIVALLED

Our success as makers of ***HORSE LAWN MOWERS*** is due to the quality in our machines to perform and the assurance of that quality to last. We can ship promptly the following styles :

30 inch, style "A," 4 blade.
35 inch, style "A," 4 blade.
40 inch, style "B," 6 blade.
With Grass Box.

THE HORSE LAWN MOWER

Send for our new 1905 Lawn Mower Catalogue "C"

Taylor-Forbes Company

Montreal Branch :
9 De Bresoles St.

The Largest Manufacturers of Hardware in Canada.

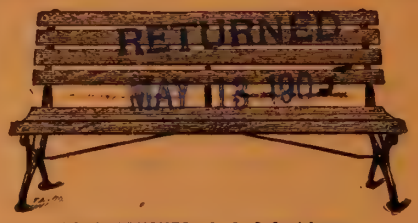
LIMITED.
GUELPH, CANADA

Classified List of Advertisements on Page 71.

Lawn Vases and Benches

We can Ship Promptly.

LAWN Mowers, Sprinklers, Shears, Rollers, Edgers, Etc.



LAWN BENCHES—4, 6, 8 foot long

Get Our New Prices

Garden HOSE

LAWN VASES



No. 5. LAWN VASE—Height, in.; diameter of vase, 13 in.



COMFORT RECLINING SWING CHAIR

LAWN VASES



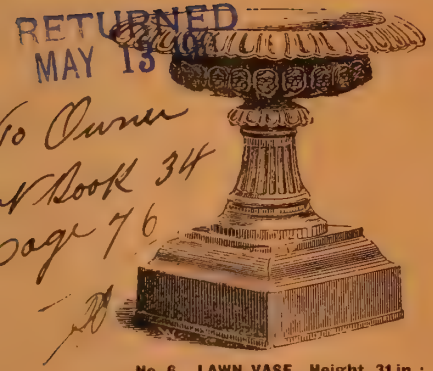
No. 3. LAWN VASE—Height, 24 in.; diameter vase, 20 in.

GARDEN SEATS



VERANDAH SEATS

GARDEN SEATS



No. 6. LAWN VASE—Height, 31 in.; diameter of vase, 23 in.



No. 7. LAWN VASE—Height, 38 in.; diameter vase, 36 in.

Write for Prices and Catalogue

RICE LEWIS & SON

LIMITED

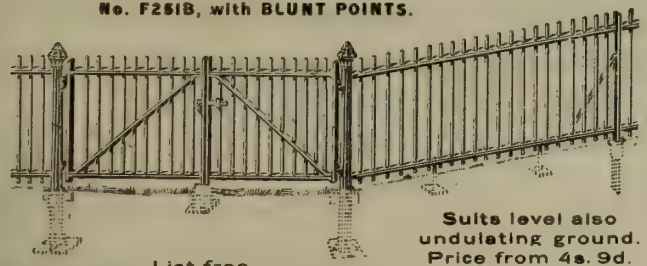
TORONTO.

BAYLISS, JONES & BAYLISS, LD.

MANUFACTURERS OF
PATENT SELF-ADJUSTING, ROUND-BAR, UNCLIMBABLE

RAILING.

No. F2518, with BLUNT POINTS.

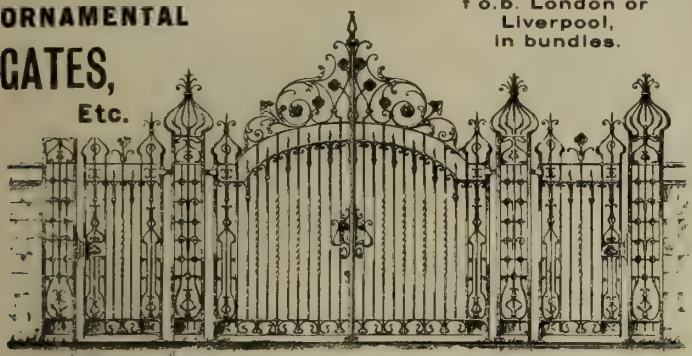


Suits level also undulating ground. Price from 4s. 9d. per lineal yard, f.o.b. London or Liverpool, in bundles.

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List free.

GATES, Etc.



Also Manufacturers of IRON AND WIRE FENCING, BOLTS, PATENT NUTS, TIE-BARS, Etc. Catalogue Free.

VICTORIA WORKS:— **WOLVERHAMPTON,** (ENGLAND).

LONDON OFFICES AND SHOWROOMS: 139 and 141 CANNON ST., E.C.

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Hardware Merchants

and

General Store Keepers

we solicit a call or inquiry.

THOS. BIRKETT & SON CO., LIMITED

WHOLESALE HARDWARE MERCHANTS

OTTAWA, ONT.



"AMERICAN" (2 in 1) TWIN FREEZERS

Freezes two flavors of Ice Cream or an Ice or Sherbet and Ice Cream at one and same time, in one Freezer Something entirely new. Never done before.

ASK YOUR JOBBER FOR THEM.
SEND FOR NEW FREEZER BOOK.

NORTH BROS. MFG. CO.

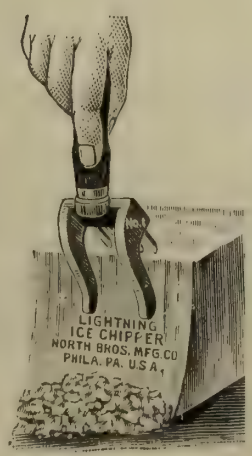
PHILADELPHIA, PA.

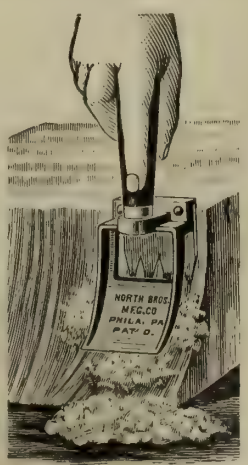
"LIGHTNING" "GEM" "BLIZZARD"



THE BEST ICE CREAM FREEZERS in practical use, because convenient, compact in size, use smallest amount of ice and salt, run easily, freeze quickly, produce smoothly frozen creams or desserts with little bother and less work.

THE ONLY FREEZERS MADE having Cedar Pails with Electric Welded Wire Hoops Cans of Heavy Tin with Drawn Steel Bottoms, Automatic Tin Scrapers.







"LIGHTNING" ICE CHIPPERS "CROWN" "GEM" ICE SHAVE



A Catalogue showing a full line of these stoves mailed on application

The "Standard" Blue Flame Wickless
COAL OIL AND GASOLINE STOVES

Absolutely Safe and Easy to Operate
Lights Instantly and Cooks Quickly

Simply turn on the oil and apply the match

"Standard" Safety Gasoline Stoves are constructed according to the safety requirements of the National Board of Fire Underwriters, and are on their list of "Permitted Stoves."

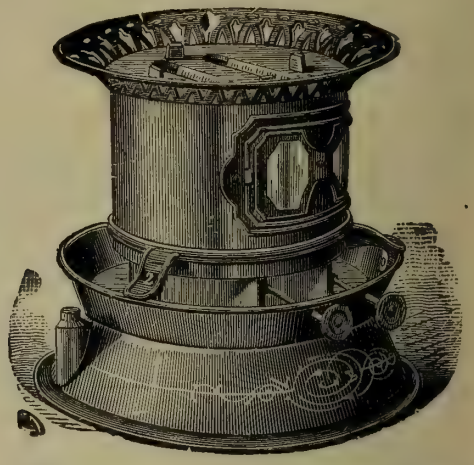
THE

"PRINCESS" COAL OIL STOVE

(TWO BURNERS)

A Good Serviceable Stove and a Powerful Cooker, at a very low price.

We have also in stock the "Summer Girl," "Eagle" and German Oil Stoves, Extension Tops, Wicks, etc. Write for prices.



The Thos. Davidson M'f'g Co., Limited
MONTREAL.

COPPER

Ingot Bar Sheet

Large Stocks Close Prices

M. & L. Samuel, Benjamin & Co.

503 Temple Building - TORONTO.

English House—16 Philpot Lane, LONDON, ENGLAND

SEND US ONE MAIL ORDER

Also send one to the "Other Fellow"

and if we don't get the balance of your business we will be satisfied to lose it. We believe that we will

SHIP MORE PROMPTLY

WILL FILL THE ORDER MORE COMPLETELY

—will charge you what the goods are worth ;

IN A WORD

will give you better satisfaction than the "other fellow."

When customers send us Mail Orders

WE KNOW

they want the goods and we ship the same day as order is received.

TRY IT

Order pads and printed envelopes for the asking.

Offices at :
Ottawa
Toronto
Vancouver
Calgary

Lewis Bros. & Co.

Hardware Merchants

MONTREAL

ADDRESS YOUR CORRESPONDENCE TO MONTREAL

HILGER'S HARDWARE

Guaranteed Best Quality

SOLE AGENTS FOR CANADA

E. F. WALTER & CO., 166 and 168 McGILL STREET MONTREAL



HOLLOW-WARE

PRESSED, STAMPED, and MACHINE-MADE

ENAMELLED, TINNED, GALVANIZED and JAPANNED

We manufacture every description of Hollow-ware and we guarantee that every piece is made wholly on our own premises. Our average weekly capacity, is over 700,000 pieces, of Tinned, Galvanized and Enamelled ware. Our Enamelled ware is of superior durability and finish, and is guaranteed free from any poisonous substances.

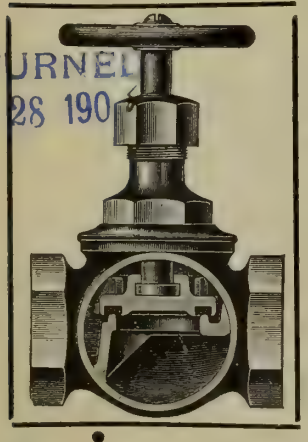
Let us have your name for our illustrated lists

The Welsh Tinplate & Metal Stamping Co., Ltd.

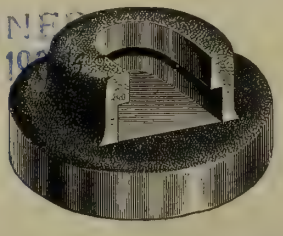
LLANELLY, WALES

When a Hardware Dealer is Asked

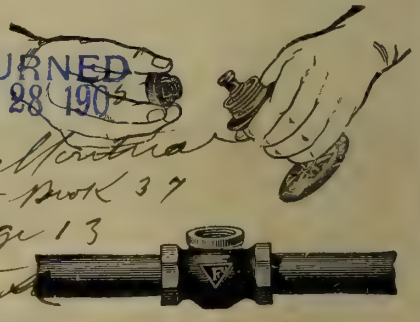
by a customer which is the best valve to use, he should say "Fairbanks," and be able to prove his assertion. This he can easily do, as Fairbanks Valves are a high-class valve, heavily and strongly made. There is nothing cheap about them. We never sacrifice quality for large profits. The disc in Fairbanks Valves is here shown and is made of long fibres of asbestos, which cannot flake or break. The disc is held on the end of spindle by a slotted head and without the use of bolts, nuts or washers. We illustrate here how easily a disc in a Fairbanks Valve is changed. Simply unscrew the bonnet, slip the old disc from end of spindle, substitute a new disc, and replace bonnet. All without the use of tools or loss of time.



RETURNED JUN 28 190



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To Montreal
our Book 37
Page 13

Fairbanks Valves and Satisfaction—The Same Thing

THE CANADIAN FAIRBANKS CO. LIMITED

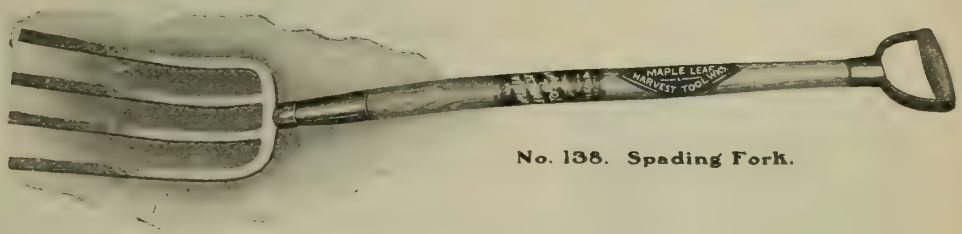
MONTREAL TORONTO VANCOUVER WINNIPEG

Have You Seen Them ?

For Beauty, Finish and Quality, the "Maple Leaf" Harvest Tools are unexcelled.



No. 122. Manure Fork.



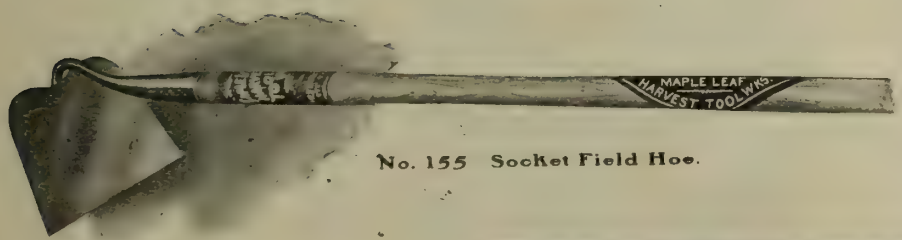
No. 138. Spading Fork.



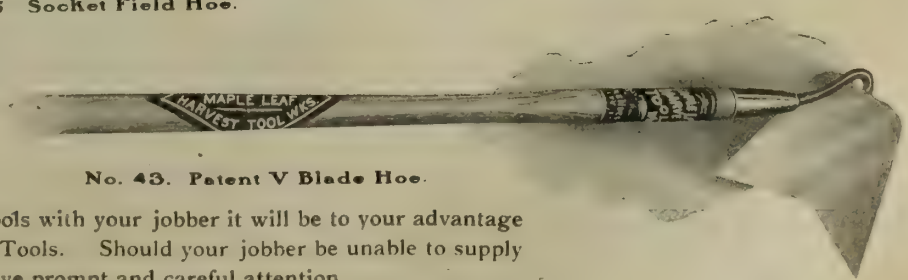
No. 243. Beet Fork.



No 108. Hay Fork.



No. 155 Socket Field Hoe.

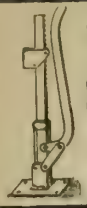


No. 43. Patent V Blade Hoe.

TO THE HARDWARE TRADE—

When placing your order for harvest tools with your jobber it will be to your advantage to **specify** for the **"Maple Leaf"** Harvest Tools. Should your jobber be unable to supply them, send your order to us and it will receive prompt and careful attention.

The Maple Leaf Harvest Tool Co., Limited, Tillsonburg, Ont.



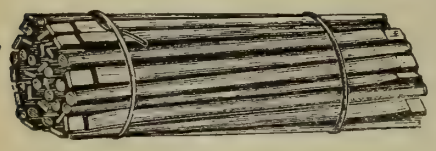
COVERT MFG. CO.
Troy, N.Y.
Steel Carriage and Wagon Jacks
Harness Snaps, Chain, Rope and Web Goods, etc.
SOLD BY ALL LEADING JOBBERS.

ALCOHOLISM

The best treatment for all persons afflicted with the disease of drunkenness is known only to Dr. MacKay. Address: City Hall, Montreal, Que. Absolutely private treatment.



ALL Leading Dealers handle the Best and Largest Line of Refrigerators on the market. That's OURS
HAM & NOTT CO., Limited, BRANTFORD, ONT.
WRITE FOR CATALOGUE.



The Sarnia Hub, Spoke and Bent Goods Mfg. Co.
Sarnia, Ontario

We are prepared to fill any orders for

HEAVY WAGON, SLEIGH, BUGGY, AND CUTTER STOCK

We make a specialty of heavy stock and can fill orders promptly. Made from the best of oak and hickory as we carry a large stock of lumber and can make any sizes that may be required. We make it a point to fill orders promptly.

If you are in need of anything in our line we will be pleased to hear from you and we will give it our prompt attention.

J. S. LOUCHEAD & SON, Sarnia, Ont.

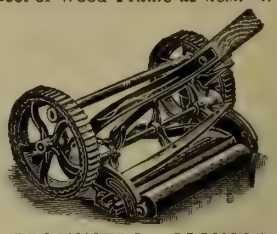


Steel Frame Support.

DAVID MAXWELL & SONS
ST. MARYS, ONT., CANADA.

"Maxwell Favorite Churn." PATENTED FEATURES: Improved Steel Stand, Roller Bearings, and Foot and Hand Lever Drive, and Detachable Driving Link. Improved for season of 1904. Steel or Wood Frame as desired.

Lawn Mowers. High and Low Wheels, from 12 in. to 20 in. widths. Cold Rolled Steel Shafting, Crucible Steel Knives and Cutting Plate.



If your Wholesale House does not offer you these articles
SEND DIRECT TO US.



MAXWELL MOWER
8-in. Low Wheel.

Wheelbarrows. In Four Different Sizes.

BEFORE PLACING ORDERS FOR
GALVANIZED SHEETS
GOOD WORKING-UP QUALITY, ASK
RD. JOHNSON, CLAPHAM & MORRIS, Limited
MANCHESTER, ENGLAND,
J.C.M.
FOR PRICES OF THEIR BRAND



OAK CABINET

Free of charge, given away with an order for Five half-dozens Scissors as illustrated above. Can be had through All leading Wholesale Hardware Firms.

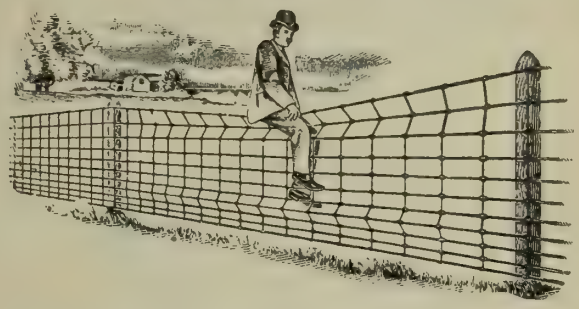
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FOR

Factory and Mill Windows
School and Church Windows
Store and Basement Windows
and for all public buildings

The B. GREENING WIRE CO.
LIMITED
HAMILTON, Ont. MONTREAL, Que.

Dillon Hinge-Stay —Fence—



Don't let YOUR farmer customer go to the OTHER Hardware for his fencing because you have none. If so, he is likely to get his Stove, Harvest Tools and other goods there, too.

Put in a small attractive stock of our 1905 DILLON fence ing, keep it where it can be seen and it will attract farm custom. Good margin in it for you, too.

OWEN SOUND WIRE FENCE CO., LIMITED,
Owen Sound, Ont.
MESSRS. CAVERHILL, LEARMONT & CO.,
(Eastern and Western Agents,) Montreal and Winnipeg.



With Crank, 1 to 25 qts.
With Fly Wheel, 16 to 25 qts.
Power Freezer, 25 and 40 qts.
Power Freezer with motor.

Prepare for a Hot Summer

Ask your jobber to show you the most complete line of freezers on the market—



Sizes: 1 to 12 qts.



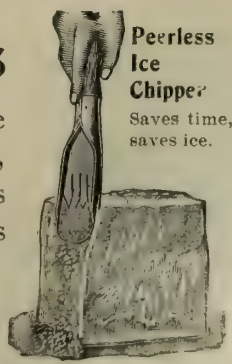
Size, 1 pint.

The original Toy Freezer.

Peerless Iceland Freezers

The best advertised—watch the Ladies' Home Journal, Delineator, Saturday Evening Post, Harper's Bazar, etc., the confectioners' journals and other trade papers.

The Dana Mfg. Company
Cincinnati, Ohio.



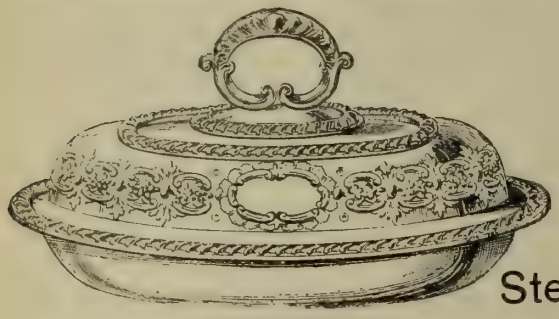
Peerless Ice Chipper
Saves time, saves ice.

John Round & Son, Limited

Manufacturing
GOLDSMITHS and SILVERSMITHS
Contractors to
H. M. ADMIRALTY & WAR OFFICE

REGISTERED TRADE MARKS
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ESTABLISHED 1847

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and
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31520.—ENTREE DISH

Manufacturers of all Kinds of GOLD, SILVER
ELECTRO PLATE ON NICKEL
and BRITANNIA METAL GOODS
Silver and Plated Cutlery
Steel Cutlery, Oak and Inlaid Goods
With Silver and Plated Mounts



31197. E.P.N.S. CAKE BASKET

Our Manufactures have a world-wide reputation of over 50 years' standing. We are the largest makers of spoons in the world.

WE WANT TO MAIL OUR CATALOGUES TO ALL CANADIAN DEALERS
WILL YOU SEND US YOUR NAME?

HOTEL and **SHIP'S OUTFITS**, special goods for hard wear
Special designs for all purposes supplied free

WHATEVER YOUR REQUIREMENTS ARE DROP US A LINE

BOSS EXTERNAL GEAR

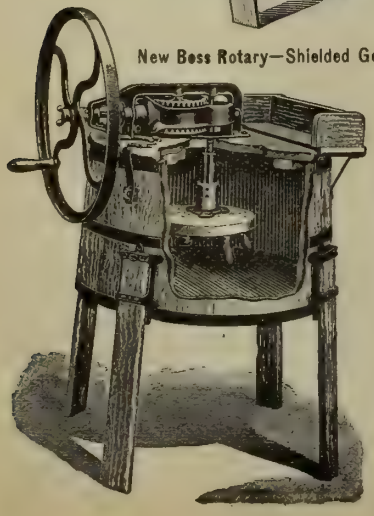


The World's Most Famous WASHERS

1904 AUTOMATIC



New Boss Rotary—Shielded Gears



Made by the largest Washing Machine Factory in the world. Capacity, 600 machines per day.

Exclusive Agencies Given

Write at once and secure agency, thus protecting your profits by avoiding competition Address

WALTER WOODS & CO.
either at **HAMILTON** or **WINNIPEG.**

MANUFACTURED BY

BOSS WASHING MACHINE CO.
CINCINNATI, OHIO, U.S.A.



RETURNED
MAY 13

F.&W.

RED STAR TOOL STEEL in stock, in rounds, squares, octagons and flats.

RED STAR TOOL STEEL is unexcelled for mine and rock drills, punches, hammers and stone cutters' chisels.



COLONIAL SPECIAL TOOL STEEL in stock in rounds, squares, octagons and flats.

COLONIAL SPECIAL TOOL STEEL should always be used for planer knives, paper and cloth cutter knives, chisels, dies, taps, &c.

BLISTER STEEL—Some die and tool makers still demand blister steel. We have a usual range of Best Swedish.

LARGEST STOCK OF IRON AND STEEL IN MONTREAL.

Frothingham & Workman, Limited

Wholesale Hardware and Iron Merchants, - - Montreal, Canada.

For 96 Years Sellers of Hardware.



—FOR SALE BY—

The KENNEDY HARDWARE Co., Limited

49 Colborne St., TORONTO, Ont.



ONEIDA COMMUNITY'S WELDLESS COW TIES.

Illustration shows the

NIAGARA WIRE LINK

OPEN RING TYPE

Also made in CLOSED RING, THREE CHAIN and DOMINION (or "Short") TYPES.

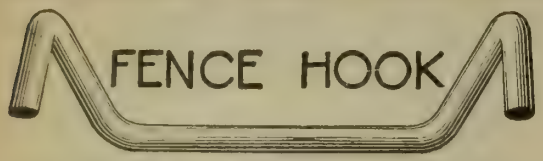
Oneida Community Cow Ties can be had of all the leading jobbers. We invite correspondence where any difficulty is experienced in obtaining our goods.

ONEIDA COMMUNITY, Limited

NIAGARA FALLS, ONT.

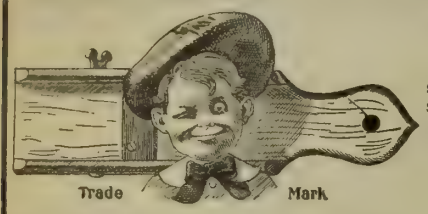
RETURNED
JUN 12 1905
Fletcher Mfg Co
Ont Book 36
Page 37
Page 42

GALVANIZED FENCE HOOK FOR FASTENING WOODEN PICKET ON WIRE FENCES



WIRE NAILS, COILED SPRING, BARB and PLAIN FENCE WIRE, OILED and ANNEALED, CLOTHES LINE WIRE, STAPLES, etc.

THE WESTERN WIRE & NAIL CO., Limited, LONDON, ONT.



"LITTLE SHAVER"

A handy kitchen utensil for scraping chocolate, slicing small fruits and vegetables. Sells well at all seasons because always useful. Made of hardwood. Blade of finely tempered steel.

Dealers write for prices to

J. M. MAST MFG. CO.,
LITITZ, PENNA., U.S.A.

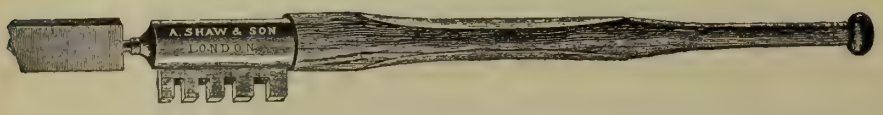
GLAZIERS' DIAMONDS Sharratt & Newth
43 and 44 Percival Street, - London, England
Contractors to H. M. Government and the Principal English Sheet and Plate Glass Works.
Established 1815

ALSO
Lead Vices,
Carbon Tools,
Etc., Etc.,



Agents for Canada: A. Ramsay & Son Company, Montreal

GLAZIERS' DIAMONDS



Ahead of all others in **quality** and **workmanship**. If **sparks** of **fine quality, set by experts**, are what you require, buy Diamonds of **A. Shaw & Son's** make.

Canadian Agent
GODFREY S. PELTON
388 ST. PAUL ST., MONTREAL

CELEBRATED HEINISCH SHEARS

Tailors' Shears,
Trimmers' Shears,
Tinners' Snips, etc.



ACKNOWLEDGED THE BEST.

R. HEINISCH'S SONS CO. NEW YORK OFFICE, 155 Chambers St
NEWARK, N.J., U.S.A.

HENRY T. SEYMOUR SHEAR CO. NEW YORK. TRADE MARK

SEYMOUR SHEARS

HAVE BEEN THE
Standard for over Half a Century.
"QUALITY UNQUESTIONED."
Each pair of our shears bears the above trade mark.

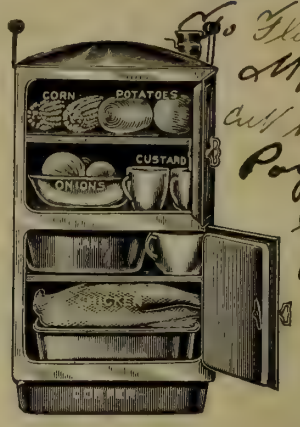
HENRY T. SEYMOUR SHEAR CO. NEW YORK. TRADE MARK



Latest Catalogue will be sent in exchange for your business card.

Complete Line TRIMMERS', BANKERS', BARBERS' and TAILORS' SHEARS, Etc., Etc.

Henry T. Seymour Shear Company.
WIEBUSCH & HILGER, Limited, NEW YORK, Sole Agents.



Mr. Dealer

Do you know there is a big demand for the

IDEAL SQUARE STEAM COOKER?

There are also big profits for you.

Ask your jobber, or write

J. A. Ross
Sole Canadian Agent
141 Bannatyne Ave.
Winnipeg, Man.

Agent Wanted

A first class agent to represent a Sheffield house of high standing, in ***silver*** and ***plated hollow-ware, spoons*** and ***forks, plated*** and ***silver cutlery, steel cutlery, etc.***

To one who has a good connection, liberal terms will be given. None but applications of the highest class will be considered. Communications will be treated in strict confidence. Address, stating age, all particulars, salary required, to

"SILVER," Box 73, Post Office,
Sheffield, England. (f19)

THIS IS THE

OLD STAND-BY

None better on the market unless it is the Triumph.

If your Jobber cannot supply, write us for prices.

NO. 233.—WILCOX TACKLE-BLOCK WIRE STRETCHER



WILCOX MFG. CO. OF ONTARIO, Limited, London, Ont.

American Steel & Wire Co.

New York Empire Building | Montreal N. Y. Life Building | Chicago The Rookery

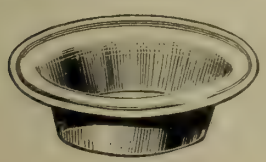
BARBED WIRE GALVANIZED PLAIN WIRE
PLAIN TWIST CABLE FENCING

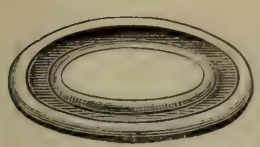
Telegraph and Telephone Wire; Mattress, Broom, Weaving Wires of every description; Rail Bonds, Bale Ties, Special Wires for all purposes, Springs, Horse Shoes, Wire Rope, Cold-drawn Steel Shafting.

About Brass Goods

REGISTERED SAJONIC TRADE MARK







We would like you to know more about our lines of

CURTAIN RINGS
CURTAIN HOOKS
MILL BAND FASTENERS
SAIL EYELETS
ETC., ETC.

Drop a line for list and quotations to our Canadian Agent,

F. P. ROGER, Toronto

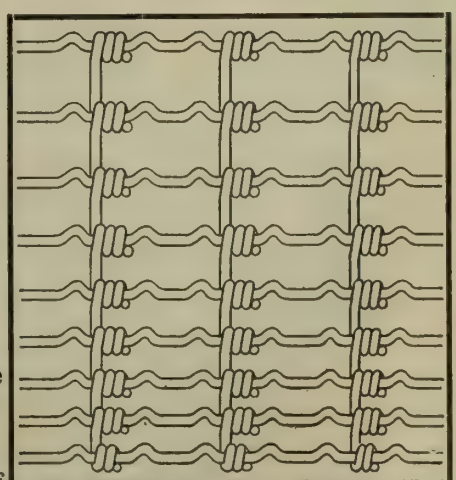
J. Nicklin & Co.

Gt. Charles St. BIRMINGHAM, ENG.

Galvanized Steel Woven Wire Fence

HIGH CARBON

The proof of the pudding is, that more of our Fences are in use than all other makes of Wire Fences Combined



American Field and Hog Fence

We Continue to Manufacture the Celebrated

ELLWOOD DIAMOND MESH ORNAMENTAL FENCES

We call your special attention to our Extra Heavy Fence, all Horizontal Wires No. 9 Gauge. Weighs more per rod, has greater tensile strength than any other Fence on the market

If your Dealers do not handle our Fences write to us

THE CANADIAN STEEL AND WIRE CO., LIMITED

WINNIPEG, MAN. HAMILTON, ONT.

This list is for the purpose of placing retailers, manufacturers' jobbers and other readers in touch with reliable and competent accountants and auditors whose services are so frequently required for such purposes as opening books,

Leading Canadian Accountants and Auditors

adjusting and auditing accounts, arranging partnerships or organizing joint stock companies, devising special office systems, making collections and investigations, handling estates, making valuations, etc.

DAVID HOSKINS, F.C.A.
Chartered Accountant, Auditor, Financial Valuator.
27 Wellington Street East, - - Toronto, Canada.

This Space $15 a Year.

JENKINS & HARDY,
Assignees, Chartered Accountants, Estate and Fire Insurance Agents.
15½ Toronto Street, Toronto.
465 Temple Building, Montreal.
100 William Street, New York.

This list is for the purpose of placing manufacturers, wholesale and retail merchants and other readers throughout Canada, and firms abroad doing business in Canada, in touch with the legal profession throughout the Dominion, for the collection of accounts, legal representation,

LEGAL CARDS.

organization of companies, the arrangement or dissolution of partnerships, or assignments, as well as all other matters of a legal nature.

For advertising rates apply to MacLean Publishing Co., Limited, Montreal or Toronto.

TUPPER, PHIPPEN & TUPPER,
Barristers, Solicitors, Etc.
Winnipeg, - - Canada.

ATWATER, DUCLOS & CHAUVIN
Advocates. Montreal.
Albert W. Atwater, K. C. Consulting Counsel for City of Montreal. Chas. A. Duclos. Henry N. Chauvin.

BEATTY, BLACKSTOCK, FASKEN, RIDDELL & MABEE
Barristers, Solicitors, Notaries, Etc.
Offices, Bank of Toronto.
Tel. Main 3813. - - - - - - Toronto, Ont.

IRWIN & JONES, Barristers, etc.
H. E. Irwin, K.C., Clerk of the Peace, County of York; B. Morton Jones, B.C.L.; Solicitors for Equity Fire Insurance Co., Berlin Fire Insurance Co.
24 King St. W., Toronto. Weston, Ont.

W. G. WILSON
Barrister, Solicitor, Notary, Conveyancer, etc.
Napanee, Ont.

MEWBURN & AMBROSE
Barristers, Solicitors, etc.
S. C. Mewburn, - E. H. Ambrose,
Hamilton, Ont.

WM. A. McLEAN
Barrister, Solicitor, Etc.
Head Office, Guelph, McLean's Block.
Branch Office, Acton, Town Hall.
Corporation Solicitor, Etc.

Educational Department.

The following institutions for the education of business men's sons and daughters are recommended by this paper:

St. Margaret's College, Toronto

A Boarding and Day School for Girls.
Thorough courses in every department.
Only teachers of the highest academical and professional standing employed.

GEORGE DICKSON, M.A., Director.
MRS. GEORGE DICKSON, Lady Principal.

METROPOLITAN

Telegraphy, Shorthand, Commercial, Civil Service, Banking Courses, the Best in Canada. We guarantee to place every competent Student. Ask for a list of our Students placed during the last three months. One or all courses same price. No Restrictions.

METROPOLITAN BUSINESS COLLEGE.
R. A. FARQUHARSON, B.A., Principal,
44 Bank St., Ottawa, Can.



THE

UNDERWOOD

The Writing-in-Sight Typewriter

Will do your work 25% to 50% faster than any other writing machine. Highest award "Grand Prize," St. Louis Exposition, 1904.

UNITED TYPEWRITER CO., LIMITED

7 ADELAIDE STREET EAST, TORONTO
and at
99 ST. FRANCIS XAVIER STREET, MONTREAL

HAMILTON LONDON OTTAWA QUEBEC ST. JOHN, N.B.

Binder Twine

BLUE RIBBON, 650 ft. to the lb.
REDCAP, - 600 ft. to the lb.
TIGER, - - 550 ft. to the lb.
STANDARD, 500 ft. to the lb.
GOLDEN CROWN, 500 ft. to the lb.

Still the Favorites of both FARMERS and DEALERS.

If **SHEAF BRAND** is preferred to any of the above, we are prepared to supply it, as we are the Proprietors of this Trade Mark.

Nothing but Select Fibre Used.
Skilled Canadian Labor.

Our Twine is not only evenly spun, but is WELL BALLED. This is very important, prevents tangling in Twine Box
Write for prices.

CONSUMERS CORDAGE CO., Limited

Mills—MONTREAL and HALIFAX. MONTREAL.

BRANCHES:

W. A. C. Hamilton, Toronto, Ont. F. H. Andrews & Son, Quebec, Que.
Merrick, Anderson & Co., Winnipeg, Man. MacGowan & Co., Vancouver, B.C.
Consumers Cordage Co., Ltd., St. John, N.B.

THE TRADE MARK THAT GUARANTEES QUALITY.

RETURNED SEP 11 1905

RUBBER BELTING HOSE PACKINGS, VALVES



We Sell Everything in Rubber

When you see this Trade Mark on a Rubber Article---It's Right

Sales Branches and Warehouses:

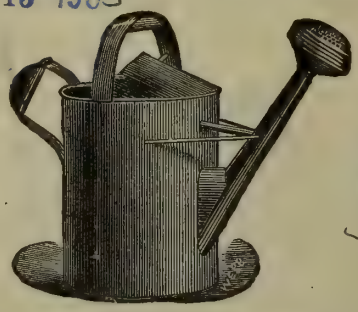
122 Granville St., Halifax, N.S.	Imperial Bank Building, Montreal, Que.	Front and Yonge Sts., Toronto, Ont.	89 Princess St., Winnipeg, Man.	403 Cordova St., Vancouver, B.C.

THE CANADIAN RUBBER Co OF MONTREAL.

RETURNED JUL 15 1905

RETURNED JUL 15 1905





RETURNED JUL 15 1905 To Owner. Cat Book 37 Page 87

Watering Pots

Japanned and Galvanized
Strong and Durable
Removable Roses

Water Coolers

Nickel-Plated Faucets
Beautifully Decorated

Each cooler packed separately in a strong box to ensure against damage in transit.



Is your stock complete with these seasonable goods?

WE CAN SHIP PROMPTLY

KEMP MANUFACTURING CO., TORONTO, ONT.

THE KEMP MFG. AND METAL CO., LIMITED,
McDermot Ave. East, Winnipeg, Man.

THE KEMP MFG. CO. OF MONTREAL,
58 McGill St., Montreal, Que.

WINNING WEALTH THROUGH WINDOWS

DON'T neglect the display windows. If rightly used they constitute one of the best methods of drawing trade available to the retail merchant. Though the customer may bring the money in through the door, the window can be a great factor in inducing him to enter. Too often hardwaremen sadly neglect this branch, and it is with some satisfaction, therefore, that we are able to produce this week a window dressed by a clerk in a Western Ontario town. The window is one of the best Hardware and Metal has been favored with, the design being carefully thought out and the execution excellent.

The young man who devotes his time and thought to studying the most tasty manner of dressing windows, or of writing advertisements, carefully noting the results secured from each window or advertisement, is not only giving valuable service to his employer and proving himself worthy of promotion, but is doing himself a great good in the way of preparing a future business career for himself as a progressive business man or as an honored employe of one of the gigantic business enterprises which are the dominant factors in the commercialism of to-day. The dresser of the accompanying fishing tackle window has proven himself to be a brainy and resourceful artist, and is of the type of young man who is destined to rise and secure wealth for himself as well as honor for Canada. Other clerks and business men should emulate this example and have photos taken of attractive looking windows for publication in this journal. If a sufficient number express themselves desirous of entering a competition the publishers will be pleased to arrange the details and offer a series of prizes.

ORIGINALITY REQUIRED.

The day has gone by when it sufficed to huddle a collection of goods in a window and merely price them. Goods must be displayed attractively to catch buyers, and originality is an important qualification required by the window dresser. Other people's windows should be studied for wrinkles, and an effort must be made to produce something entirely different and yet more attractive in catching the eye of the buying public. To imitate blindly these ex-



RETURNED
MAY 16 1905

Novel Fishing Tackle Window, Shown at W. R. Hobbs' Hardware Store, Tillsonburg, Ontario.

amples in a shop in the same town does not require much brain, and would not be likely to promote business harmony. There is a rage for novelty, and the public will always look at something new. The aims of a window dresser, therefore, should be directed first to catching the eye of every passer-by, and to so displaying his wares as to make a permanent impression of the establishment.

Not long ago a large dry goods house made a great display of silks in one of their windows, and introduced a piece of beef in a conspicuous part of the window. The public took the bait, and stopped to speculate as to the reason for the exhibition, which was, of course, not to sell the beef, but to direct attention to the quality of the mercer's wares.



A Model of Neatness—Interior of W. R. Hobbs' Hardware Store, Tillsonburg, Ontario.

But whatever plan is followed it should never be overlooked that the first object of window dressing is to advertise; and to advertise successfully it is necessary to keep the name of the business, as well as its nature, constantly before the public.

A PRECONCEIVED PLAN.

Before starting on a window the whole scheme should be carefully thought out. If an elaborate combination is intended it should even be sketched and planned to scale. The dresser who has the result in his eye before he begins and knows exactly how it is to look rarely makes a mistake. It is not wise to have a window under construction for days, because then the picture becomes stale to the public by the time it is completed. It is well, therefore, to have everything, as far as possible, prepared before beginning. All necessary fixtures should be ready and price tickets prepared beforehand. Here it might be mentioned that if an assistant aspires to become a good window dresser he should perfect himself in the art of ticket writing, as that is an almost indispensable adjunct to the practice.

Having completed all the preliminaries, the window should be cleared of the previous display overnight, but the glass ought not to be cleaned and polished until the morning of the day the work is to be done. This may appear a trivial matter, but it is not an altogether unnecessary remark.

Color must be carefully considered. What might otherwise be a really creditable bit of window dressing is often spoiled by neglect of this factor. A correct color scheme makes all the difference to an arrangement, and good taste in this respect needs to be cultivated. If the goods shown are many colored, as for instance gas or lamp globes, a little care in arrangement is well repaid. Red can be used in many ways, as, for example, for the shelves, columns, and floor of the windows. It has a warm and attractive appearance and can be used with many other colors without causing irritation to the eye. Backgrounds should generally be light. Dark grounds act as reflectors, but the choice of color for this purpose must be determined by the nature, size, and color of the goods.

SEASONABLENESS AND SPACING.

It seems absurd that it should need be mentioned that the display ought to be a seasonable one, but many of us have seen skates on view in March, and garden seats in October. A window, too, should not be left in so long as to become tedious. A change once a week is generally sufficient, but in some cases two or three days is long enough. If no sales are resulting the window should be altered at once. "If the public do not want what you are showing, show them what they do want," is a good axiom for window dressers. It is important that all goods shown should be fresh and bright, as one shabby or dingy article will spoil the whole effect, and create a false or bad impression. While it is wise to cultivate uniformity, stiffness should be avoided. The aim should be to make a window, as a whole, pleasing to the eye. Not only that, but each article should have its distinct place, and not be jumbled up in a confused mass with the rest of the display. An experienced window dresser will see to it that while the window has a full and stocky appearance only a comparatively limited stock is used, and that each article can be picked out quickly by shoppers. "Don't place big articles in front of small" is one of the elementary rules of window dressing, and yet this simple matter is often disregarded. When once an establishment has a reputation for attractive windows it is surprising how the public will watch for changes in them.

RETURNED MAY 16 1905

Fishing Tackle Used as Bait.

Mr. W. G. Pow, head clerk for W. R. Hobbs, hardware merchant, Tillsonburg, sends an interesting description of how he used fishing tackle as bait to catch the eyes of passers by. The illustration, showing the rushing trout stream with myriads of minnows sporting in the water, with banks moss lined and dotted with boulders, is greatly enhanced in depth of beauty by the mirror in the upper right hand corner, which makes the window appear twice its actual size. Mr. Pow writes:

"The background is a strip of canvas with a river scene, and in the distance a row of hills and trees. The back part of the window is built as a hill with small trees, stumps and ferns, while the bottom of the window is covered with moss, with here and there a stone or

WIRE NAILS
TACKS
WIRE
Prompt Shipment
The ONTARIO TACK CO.
Limited.
HAMILTON, ONT.

moss covered log. By means of a piece of hose attached to the town waterworks, and a galvanized iron basin with cement bottom, a small stream of water starts from one corner on the hill and winds its way to the opposite corner emptying into a barrel in the cellar. In the stream are fish of various kinds and sizes which makes it look very realistic. On the bank is a small sign "No fishing allowed," and hanging from trees and scattered here and there in the window are fish lines and poles which greatly assist in the sales of all kinds of fishing tackle.

The store was photographed from between the two doors and only half can be seen. At the rear of the store is a warehouse 60 feet in depth, making the entire length 145 feet. The latest improvements installed are electric call bells for each of the four clerks who can be called from any part of the building by means of push buttons to every department as well as a speaking tube from the front counter to the glass department.

Use the Window for Advertising.

When quantities of odd goods or broken assortments are small it is seldom advisable to advertise them at reduced prices in the newspapers, where hundreds and thousands of readers are likely to see the announcement. If people respond to such an advertisement after the goods are sold there is bound to be disappointment and a corresponding undesirable impression of the store. It is not good business to advertise any line of goods which will not last until all inquirers are satisfied. When these small broken lots are shown in windows they are taken from view at once when they are sold, and therefore cannot mislead people into coming to the store for nothing, or give any one an opportunity to accuse the management of misrepresentation. While it is not good policy to indulge too often in this class of display at the expense of new goods, still an occasional effort in this direction is bound to prove effective if it is conscientiously carried out.

Good Window at Guelph.

A well arranged sporting goods window shown recently by J. M. Bond & Co. attracted considerable attention at Guelph. The central feature was a hanging kite-shaped arrangement of lacrosse sticks and tennis racquets, other designs being made up on the wall and floor of baseball bats, masks, gloves, balls, and other classes of goods used for out door sports. The whole was set off by an artistic show card on which was inscribed: "Under the general head of sporting goods we have a very excellent line of supplies and appliances for all sorts of out door pastimes."

Profit In Flies

There is profit for S.W.P. agents in flies. Rather peculiar statement to be sure. But the *fly season*, now almost here, means *screen season* also.

Many of your customers have old screens —rusty and dingy.

SHERWIN-WILLIAMS

SCREEN ENAMEL

makes old screens look like new. It arrests rust—preserves the screen. New screens cost much more than a new coat of paint. Sell S-W. Screen Enamel and *save money* for your customers and *make money* for yourself.

Sherwin-Williams advertising—the kind that gets results—will help you push Screen Enamel. Includes attractive show card showing piece of painted screen.

S-W. Screen Enamel is made in two colors—black and green. Put up in convenient sized packages, ready for use. Write us *today* for prices.

THE SHERWIN-WILLIAMS CO.

PAINT AND VARNISH MAKERS.

Canadian Headquarters & Plant: 639 Centre St., Montreal, Que.
Warehouses: 86 York Street, Toronto; 147 Bannatyne Street, East, Winnipeg, Man.

1497

CATALOGUES AND BOOKLETS.

For the convenience of its readers HARDWARE AND METAL has opened its columns for the review of catalogues booklets or other such publications issued by manufacturers or wholesale dealers selling to the hardware, plumbing, machinery or metal trades. Retailers desiring such publications may also have inserted a note to that effect. It is requested that when any of the trade write for any booklet mentioned in these columns that they credit HARDWARE AND METAL as the source of their information.

Frothingham & Workman's New Catalogue.

ACCOMPANYING this article there is a reduced fac simile of the cover of the 1905 sporting and Fall goods catalogue just issued by the wholesale hardware firm of Frothingham & Workman, Limited, Montreal. The background, as will be noticed by the accompanying illustration, is blue, making a very pleasing and artistic cover and one that would interest sporting goods dealers. It contains 74 pages, devoted to a comprehensive line of guns, rifles, ammunition and sportsmen's goods, such as hunting knives, field glasses, dram flasks, fishing rods, reels and lines, and game traps. The Winter sports are represented by a line of skates, hockey sticks and snowshoes. Considerable space is devoted to goods selling principally in the Fall, such as halters, horse blankets, sleigh bells and cow ties. Any retail hardware dealer not already possessing one of these catalogues would do well to send to the above address for one, mentioning this publication when writing.

Two Fine Catalogues.

The Metal Shingle & Siding Co., Limited, Preston, have issued catalogues Nos. 10 and 11, the former dealing with classic metal ceilings and showing a vast assortment of ceiling designs of great beauty while the latter comprises a large variety of types of sheet metal goods, embracing safe lock and ornamental shingles, roofings, metal build-

ing fronts, cornices, finials and crestings, galvanized skylights, window and door caps, stove pipe thimbles, eavetroughing and conductor pipe, water bowls, sheet metal pumps and tanks, architectural metal work, ventilators, etc.

The metal ceilings are divided into Gothic, Louis XIV. and miscellaneous designs, illustrations also being given of the large new plant erected by the company to replace the works destroyed by fire last year. Another illustration shows the "Strathcona," a magnificent modern apartment house in Winnipeg, in which 650,000 square feet of metal ceiling was used.

The two catalogues will be valued by every hardware merchant who is fortunate enough to secure a copy, as this class of goods is gaining in popularity on account of its fireproof qualities and



Frothingham & Workman's New Catalogue.

artistic beauty. Those who have not yet received a copy can do so by writing the address given and stating that the offer was made in this journal.

Patent Steel Butts.

The Wilcox Manufacturing Co., of Ontario, London, Ontario, who have purchased the Canadian patents for Hubbard's patent steel butts, are arranging to put them on the market, and are sending to the trade a catalogue illustrating the comprehensive line of these goods, which have won a remarkable record for themselves in the United States. Dealers desiring to secure an agency for the butts should send for a catalogue, one of which can be secured by mentioning Hardware and Metal when writing.

There are **HAMMERS** *that "Knock," and there are* **HAMMERS** *that convince. We employ the convincing kind; for instance, we say contact with the Hammer will not discharge an*

IVER JOHNSON REVOLVER

And then we use our **HAMMER** *just to demonstrate the truth of our assertion. We call this a convincing argument, not "Knocking."*

Hammer the Hammer



Send for literature.

IVER JOHNSON'S ARMS & CYCLE WORKS,
FITCHBURG, MASS.
New York Office: No. 99 Chambers Street.

A "Kelsey" Folder.

The James Smart Manufacturing Co., Brockville, have issued an envelope-size folder which contains 20 pages of strong points and special features regarding "Kelsey" warm-air generators. Four pages are given to a list of places in all the Canadian provinces where the "Kelsey" is used for the warming and ventilation of schools. Many illustrations are also produced of buildings in which systems have been installed. According to the folder the sales of the "Kelsey" in 1889 were only three, while 25,000 are now in successful operation, the sales in Canada having increased 50 per cent. during 1904.

Summer Sports.

"Summer Sports" is the name of a new sporting goods catalogue just issued by Messrs. R. & W. Kerr, hardware and sporting goods dealers, of Nos. 2,226-2,232 St. Catherine street, Montreal. The catalogue is prettily illustrated throughout, the cover representing a canoetist shooting the rapids. Such articles as campers' goods, athletes' clothing, athletic sundries, boats and canoes, articles pertaining to every game played within doors and without, fishing tackle, and Summer contrivances for cooking are cleverly dealt with, both regarding illustrations and information. One of these catalogues may be received free upon request. When writing mention the name of this paper.

Toronto Rubber Roofing.

THE roofing subject is one that is becoming more important every year. The vast forests that once yielded an overwhelming quantity of pine and other woods for shingles are disappearing, while slate, iron, tin, pitch and gravel have not seemed to give the satisfaction it was expected they would. Recourse was had to tile, cement, etc., but they, too, have been found to be too heavy and for other reasons unsatisfactory.

It is, therefore, a matter of great interest to know that the Luxfer Prism Co., Toronto, is introducing a material which is at once light, strong, durable and cheap, and at the same time waterproof, wind-proof, acid and fumes proof, and fit for any kind of roofs. It is also used for covering outside of buildings, floors of warehouses, offices and kitchens. "Toronto Rubber Roofing," as this material is called, is made from the finest grade of wool felt, densely compressed and saturated with a special compound. Samples will be sent to any dealers who mention this paper when writing.

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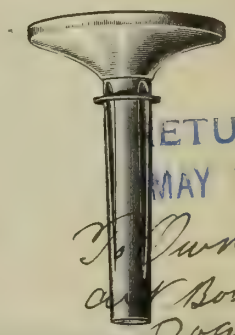
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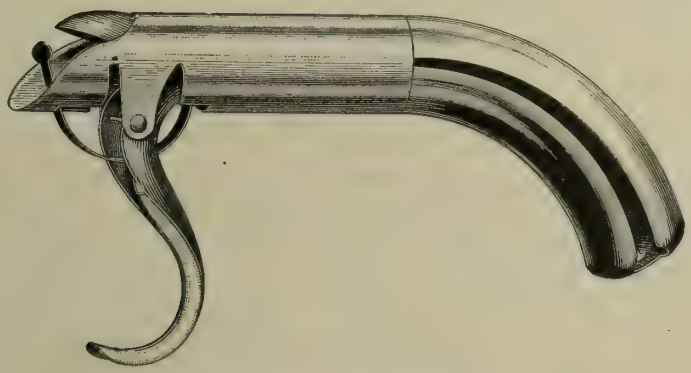
"UNIVERSAL" Stuffer Attachment



GERMAN Meat Cutters



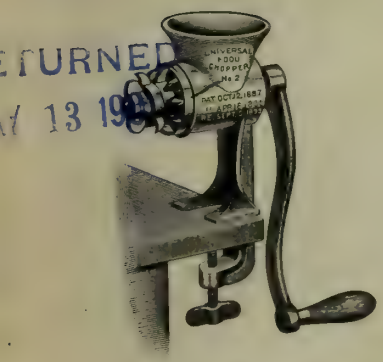
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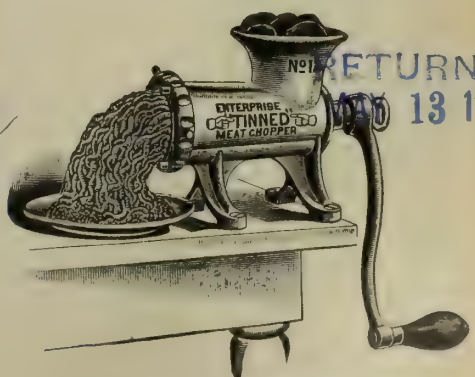
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By M. J. Quinn
Mechanical Superintendent for the Ontario Government.
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Article III.

Principles of Hot-Water Heating.

THAT there is yet a great deal to be learned by the majority of heating men regarding the science of hot water heating, will not be denied by them, and that there is an exceedingly large element of guess work in the planning of most systems is proven, to the cost of both the fitter and customer, by the lack of satisfaction either with the whole system, or with parts of it.

We believe that the difficulties which nearly every fitter experiences are, in most cases, due to the fact that he figures out his radiating surface on a wrong basis, a basis which, nevertheless, is in very general use, viz.: Allowing a certain percentage of heating surface, based upon the cubical air contents of the apartment in which it is to be placed, this percentage decreasing with every storey in height. To those who have never used any other system, the statement that the size of the room is absolutely no guide as to the proper amount of heating surface required, will be received with surprise.

It has been the custom to place in ordinary well-constructed buildings an amount of heating surface equal to 10 per cent. of the total air contents of the building, in cubic feet, that is to say, ten lineal feet of one inch pipe for every one hundred cubic feet of air, and as three feet of one inch pipe make one square foot of heating surface, it follows that there are three and one-third square feet of radiation to every one hundred feet of air.

This means that after arriving at the amount of air in the room and multiplying by 10 (10 per cent.), then striking off the last two decimal figures and dividing by three (lineal feet one inch pipe), the result will be the number af square feet required.

This, however, is the old method, and does very well for estimating the amount of surface which will be required. Taking the whole building into consideration it will not do at all, however, for figuring out the various apartments, and the system which we propose to describe (while it takes a little more time to figure) is even more simple than the old method, will figure out at very little more for the whole building than 10 per cent., and will heat each apartment to the desired temperature.

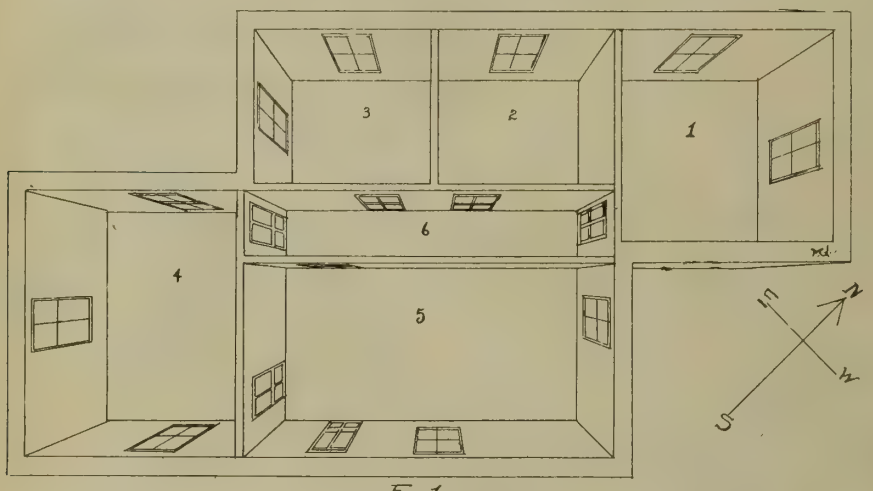


Fig 1

The first thing to consider, then, is the means of escape for the heat delivered into the various rooms, and not, as was said, the size of the room, for as will be obvious when this article is concluded, it is quite possible to heat an apartment 30'-0'' x 10'-0'' x 10'-0'' under certain conditions, with the same size radiator which would be required in another apartment 10'-0'' x 10'-0'' x 10'-0'' situated less favorably.

For the purpose of demonstration, let us take a five-gallon can, fill it with boiling water, cover it all around with mineral wool, or other non-conducting matter, one foot thick, and place it outside on a cold day. It will undoubtedly, protected as it is, take several hours to cool. If, however, one side of the can is laid bare to the cold winds, what a difference it will make, while it will not cool nearly so fast if the exposed side is turned away from the direction in which the wind is blowing. Expose two sides, the water will cool twice as quickly; three sides, three times as quickly, and so on until all four sides and both ends are uncovered.

Now, having arrived at that stage, let us cover the ground once more. Assuming that the water in the first place was heated to 212 degrees, (boiling point), and that we had connected to the can two circulation pipes running from a small heater in which, say, gas is the fuel used, and we desired to maintain the temperature at the point mentioned, it will be seen at once that with every surface of the can covered with non-conducting material one foot thick, very little heat from the gas flame would be required; it will also be quite obvious that if, as in the other instance, one side of the can is uncovered and exposed to the cold atmosphere, that the gas flame will have to be increased in size, and will have to be increased twice as much if two sides are exposed, and three times as much if three sides are exposed, and so on until the largest amount of heat is being lost through the sides of the can, and in consequence the largest amount of heat must be supplied to it, by consuming the greatest amount of gas.

To make a long story short, let every room in the building to be heated represent a can of water, let the radiator represent the gas heater, and have it of the proper size to provide the full amount of heat which will be lost through the exposed walls, glass, etc., because they are the factors that have to be counted upon in figuring steam or water heating, and not the cubical air contents.

Let us now refer to the illustration, Fig. 1, which is a perspective view of the lower floor of a building, looking

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from a point above, and having in mind what has been said respecting the loss of heat through exposed surfaces, let us discuss the requirements of each apartment.

It will be noticed by the arrow that room No. 1 has north and west exposure, which, of course, are the coldest points of the compass, and that it has three sides and two windows exposed. This room will naturally be a difficult one to heat. No. 2 will be much easier in proportion to heat than No. 1, because it has only one side exposed, while No. 3, which is exactly the same size as No. 2, will require much more heating surface, because it has twice as much exposed surface. No. 4 will be somewhat less difficult to heat than No. 1, for the reason that while, like the latter, it has three exposed walls, they have a south and east aspect, which is in its favor. No. 5, for the same reason, has some advantage over the rooms back of it, and No. 6 requires practically no heat at all, because it has no exposed walls or glass.

Room Number	Glass Surface	Exposed Wall	Cubic Feet Air	Radiation	Deduct 5%	Add 5%	Radiator Required
1	36	324	1440	79½		A	83½
2	18	82	1000	27		1	28
3	36	164	1000	40		2	42
4	54	366	3300	116½	6		110½
5	57	483	5330	148	8		140
6			1600	13	1		12

Before showing how the proper amount of heating surface required for each apartment is arrived at, it is necessary to state that the calculations given are based on the amount of heat lost through fairly well-bulit brick or stone construction, properly fitted windows, etc., and the fitter will have to use judgment in applying the rules which follow, by increasing or decreasing the radiating surface in accordance with the quality of building which he is required to heat, and further, as the temperature aimed at in the building shown is 68 degrees, with the outside temperature at zero, he will have to make a slight change as hereafter directed should he require a higher or lower temperature.

The statement was made in the beginning of this article that the cubical air contents of a room need not be taken into consideration in figuring out the necessary amount of radiation, and this is true, but for the convenience of the fitter it will be safe to allow a certain amount of radiation, based on the cubical air contents, in order to provide for the units of heat that will escape through the floor and ceiling. Of course, this surface, like the walls, can be figured out definitely, but for the sake of convenience, and because the rule given has been found by experience to work well, we recommend it.

In brief, then, the method adopted for finding out the required amount of radiation for each apartment in the sketch shown, the building, as was said, being of good construction, and the inside temperature 68 degrees, is to allow for every square foot of glass one square foot of radiation; the same amount of radiation for every ten square feet of exposed wall, and the same again for every 125 cubic feet of air.

In addition to this, for each room having a north or west esposure, add 5 per cent. to the result, and for each room having a south or east exposure, deduct 5 per cent.

For instance, room No. 1 is 12'-0" x 12'-0" x 10'-0". It has 36 square feet of glass, 324 feet of exposed wall, and 1,440 cubic feet of air. figured out on the basis above laid down, such a room should have 36+32+11½=79½ square feet+5% for north and west exposure= 84½ square feet.

We recommend that a form such as is shown in diagram 2 should be used, so that by referring to it the fitter will know in an instant what amount of radiation is to be put in any apartment, and also how it is made up.

The diagram is figured to give this information regarding the building shown in Fig. 1.

Regarding the calculation necessary to obtain a temperature higher or lower than that mentioned, (68 degs.), the fitter has simply to allow a greater or lesser proportion of heating surface to the cubical air contents, as, for instance, suppose 70 degs. is required for a sitting room, one foot of radiation should be allowed for every 115 cubic feet of air. If it is a sleeping chamber that is being considered, 58 to 60 degs. is the temperature best suited, and one square foot of radiation to every 140 cubic feet of air will give satisfaction, and other temperatures in like proportion, these amounts of radiation being, of course, in addition to those given for glass and exposed wall, and it may also be mentioned here that outside doors are figured as glass.

Before concluding this article, it may be well to refer to a mistake which is commonly made by fitters, that is, assuming that a room on the first floor does not require as much heating surface to maintain the same temperature as that required in a room on the ground floor used for similar purposes, as, for instance, a sitting room.

The fallacy of this idea will be apparent when one considers that the heat will escape just as rapidly from window glass or exposed wall fifty feet above the ground as at the ground level, and while it may be said, and properly so, that a considerable amount of heat will pass through the ceiling and floor between the ground floor and first floor, sight must not be lost of the fact that it will escape from the upper storey through the roof in, if anything, larger quantities than from the lower storey, through the ceiling and also the floor into the basement.

Referring again to Fig. 2, it will be found that while there is a good deal more than 10 per cent. of heat in some rooms, and less than that amount in others, taken altogether, an amount slightly less than 10 per cent. for the whole building is called for, while if the temperature were to be maintained at 70 degs., the amount required would be very slightly in excess of 10 per cent. as an average.

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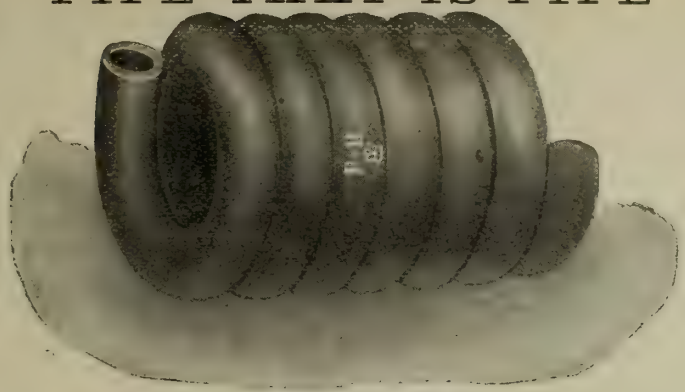
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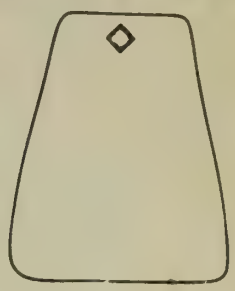
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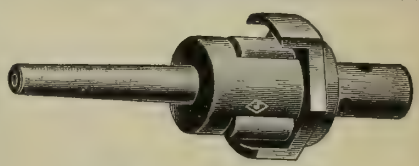
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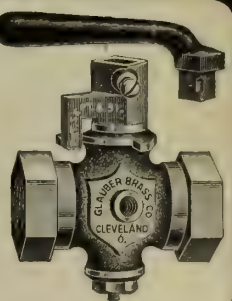
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Sanitation in Japan.

IN their personal habits the Japanese are very cleanly, but their sanitary conveniences, according to a writer who has recently returned from that country, are very meagre. He says that in the country and small villages the small streams are polluted; the people bathe in and do their washing in ponds of very stagnant water. The water closet arrangement is simply a receptacle (usually earthenware), which is emptied occasionally, the contents being carried away in closed barrels. Imagine Tokyo, a city of 2,000,000 people and an untold number of homes, and this cleaning of closets going on day and night! In the streets one's sense of smell soon informs him that he is passing one of the so loaded carts or carriers. The contents of the vaults are carried into the environs and deposited in earthenware open wells, located usually at the corner of each garden, to be used later as a fertilizer. It is not unusual to meet or pass by women and even young girls carrying two heavy buckets filled with this refuse, carried two miles and even more from the city. There is usually no charge for this cleaning of vaults, the farmer or gardener even offering a small fee in way of vegetables for the privilege of cleaning them. The Japanese are very cleanly in person. Within their houses everything is washed and scrubbed and polished, but outside the walls of the house is the most disgusting filth.

Improvement in This Trade.

Appearances in the gas and electrical fixture trade of Canada are beginning to brighten to a considerable extent, and the outlook at present is better than it has been some months past. The sale of these goods in this country has been limited, owing to the heavy shipments of cheap goods arriving from the United States. So many inefficient results have occurred from the installation of these fixtures that the better class of Canadian purchasers are beginning to realize the necessity of a higher quality of goods, and many retail merchants who have hitherto bought from American houses are now purchasing from Canadian manufacturers. Mr. A. C. Jenking, representing Wilfred Lacroix & Co., of 29 Bleury street, Montreal, states that they are receiving orders more freely from parts of the country hitherto controlled by the American trade. In reference to the special features of the demand, Mr. Jenking said that the gilt brass fixture has the best sale among the smaller purchasers while the retail merchant who caters to the better class of trade is buying very freely in iron, brushed brass, old brass, black, antique and oxidized brass goods.

Many Contracts Being Let.

Such an advance has been made in the building trade already this Spring that many contracts are being received by the leading plumbers and heaters of Montreal. The quality of the work is better than heretofore, and the better lines of goods are being used more frequently. This change is especially noticed in the case with private dwellings. Mr. Thomas O'Connell, plumber, corner of Ottawa and Murray streets, Montreal, when seen by a representative of Hardware and Metal this week, stated that the contracts received by him this Spring are far in advance of last year. He believes that the increase in the work may have a tendency to make labor scarce. The following are some of the contracts which have been received by Mr. O'Connell during the past few days:

The installation of a complete plumbing outfit in twenty four dwellings on Hutchison street.

Installing of a complete plumbing and heating outfit in the new building at the corner of Little Craig and St. Antoine streets.

Six houses in connection with the Judge Doherty estate, which are being erected on Mance street, for both plumbing and heating.

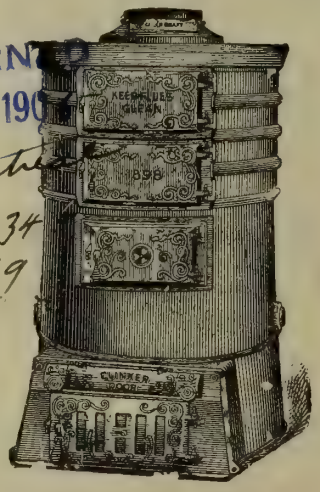
The plumbing and heating in the dwelling which is being erected for the officials of the insane asylum at Verdun.

Complete plumbing and heating installation in the new dwellings which are being erected at Cote des Neiges.

A Modern Hot-Water Boiler.

THE CUT, shown herewith, is an illustration of the "Sirdar" hot-water boiler, manufactured by the Thomas Robertson & Co., Limited, of No. 644 Craig street, Montreal.

RETURNED MAY 13 1905 To Montreal Book 34 Page 79



Sirdar Hot Water Boiler.

These boilers are made in several sizes to meet the varied requirements of the home. Some of its advantages are: Its modern and scientific construction, a large corrugated fire-pot, which insures a perfect combustion all around the edges as well as the centre, and a very large fire surface backed by water, including deep overhanging water chambers or pockets. The water in this boiler rises in the centre of the boiler over the hottest part of the fire, thereby insuring rapid and direct circulation and doing away with the water post, which is generally to be found at the back of other boilers. Each section is connected with cast-iron, milled, and screw nipples, which, being of the same material as the boiler, guarantee equal contraction and expansion. A noteworthy feature is the non-requirement of gaskets or packing. Their simple construction makes it possible for any one to operate them.

Air-Washing Apparatus.

THE impossible appears to have been accomplished in the maintenance of a clear, fresh atmosphere in an office building in the heart of the Pittsburg mill district. This result has been secured in the case of the office building of the H. K. Porter Co., by the introduction of the special plenum-heating system and coke air-washing apparatus. The entire equipment was designed and installed by the B. F. Sturtevant Co., of Boston, through its local Pittsburg office. The heating apparatus, consisting of fan, heater and belted motor, is installed in the basement in conjunction with the washer, which consists of a metal supporting frame filled with broken coke, over which water is allowed to trickle. The air as it passes between the fragments of coke is thoroughly cleansed of smoke and dust, which is washed down by the water to the bottom of the device and there removed. Previously to the installation of this plant, drawings, papers and the like became very dirty. It is now reported that they are kept perfectly clean at all times, owing to the fact that no air can go into the building except through the heating apparatus, where it is very thoroughly and effectively cleansed. The slight pressure maintained within the building causes outward leakage at all points. It is anticipated that the same equipment will prove very advantageous for ventilating purposes during the Summer time. If such a system works successfully under the conditions of the usual Pittsburg atmosphere, there should be no question of successful operation in other cities where the same conditions obtain, but to a lesser degree.

House of Commons Ventilation.

The air used for ventilating the House of Commons, in London, Eng., during the Summer months, passes through blocks of ice. In Winter it is heated. In fog the outer air passes through layers of cotton wool six inches thick. During forty-eight hours of fog, the cotton wool on one occasion was as black as the back of a chimney. Thanks to these precautions, the House has been absolutely free from mist, and the atmosphere is in normal condition while a dense fog prevails outside. The normal temperature of the House of Commons is kept at the level of 62 degrees, except in sultry weather, when it is raised to 65 degrees.

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The NATURO Company

C. H. MUCKENHIRN, President.

Salem, N.J.

Plumbing Markets

Quebec.

Office of HARDWARE AND METAL,
232 McGill Street,
Montreal, May 12, 1905.

CONDITIONS, locally, have greatly improved during the past few days. Supply houses are busily engaged, shipping forward orders. Some grumbling is heard on the part of the master plumbers over the inability of the supply houses shipping exactly on time. Now that the cheapest freight rates have been enforced the plumber when giving his orders is tempted to demand immediate shipment, which, as has been said before, the wholesale men find it difficult to do, owing to the unusual rush this year. The increase in the building trade has caused a heavy demand for everything that is needed to complete a job. Local wholesale houses are keeping up well with the shipment of orders, and at present the outlook is for quicker shipments than those of last season. The installation of numerous water work systems throughout the Dominion has caused an excessive demand for lead and iron pipe and fittings.

Range Boilers—We quote as follows: Iron clad, 30 gallon, $6, and 40 gallon, $7.50 net; copper, 30 gallon, $22; 35 gallon, $24; 40 gallon, $28. The discount on copper boilers is 15 per cent.

Lead Pipe—Lead pipe has a good demand. Although there is an increase in the demand prices have not been affected in any way. At present there is no indication of a change. We quote as follows: Discount 30 and 5 per cent. f.o.b. Montreal, Toronto, St. John, N.B., and Halifax; f.o.b. London, 15c. per hundred lbs. extra.; f.o.b. Hamilton, 10c. per hundred lbs. extra.

Iron Pipe Fittings—No change has occurred in the general conditions of this market. Discount on all sizes of nipples up to six inch, 67 1-2 to 70 per cent.

Iron Pipe—The demand for iron pipe has increased to a considerable extent during the week, and the rolling mills find it difficult to ship orders on time. Prices are firm, but no change is anticipated. We quote: Standard pipe, in lots of 100 feet, regular lengths, 1-4 inch, $5.50; 3-8 inch, $5.50; 1-2 inch, $8.50; 3-4 inch, $11.50; 1 inch, $16.50; 1 1-4 inches, $22.50; 1 1-2 inches, $27.00; 2 inches, $36.00; discounts on black pipe, 1-4 inch, 62 1-2 per cent.; 3-8 inch, 62 1-2 per cent.; 1-2 inch, 72 1-2 per cent.; 3-4 inch, and upwards, 74 1-2 per cent. Discounts on galvanized pipe: 1-4 inch. 47 per cent.; 3-8 inch, 47 per cent.; 1-2 inch, 62 per cent.; 3-4 inch and upwards, 64 per cent. Extra heavy pipe of 100 feet lots are quoted as follows: 1-2 inch, $12.00; 3-4 inch, $15.00; 1 inch, $22.00; 1 1-4 inches, $30,00; 1 1-2 inches, $36.00; 2 inches, $50.00. The discount for black pipe is: 72 1-2 per cent., and for galvanised, 61 per cent.

Soil Pipe and Fittings—A decline of ten per cent. on standard soil pipe, standard fittings and fittings is noted this week. No further change is anticipated. Standard soil pipe, 50 per cent. off list. Standard fittings, 50 and 10 per cent. off list. Medium and extra heavy soil pipe 60 per cent off. Fittings 60 per cent. off.

Ontario.

Office of HARDWARE AND METAL,
10 Front street east,
Toronto, May 12, 1905.

BUSINESS is being booked at a remarkable rate this month, all the supply houses reporting that trade is nearly double what it was in May last year. As an indication of this, one jobber states that 1,000,000 feet of iron pipe was sold to one purchaser last May, but the indications are that double the quantity will be sold this month, all the purchases being of an average size. Every class of goods is on the move, and while shipments are still being made promptly the supply people are experiencing difficulty in keeping up with their orders, and are commencing to work overtime in order to handle the business, as both city and country are ordering heavily. The prospects for a record year are excellent.

No changes in prices are reported, although the drop in copper may cause a corresponding decrease in prices of brass goods.

The case against the local supply house appears to be dragging itself out, being adjourned from week to week and little evidence being taken tending to prove the existence of a combine. Witnesses for the prosecution have been discredited by it being shown that supply houses had good ground to refuse to sell them goods owing to long standing accounts and judgments against them.

Lead Pipe—Prices continue strong, with an active demand. We quote: Lead, 7c.; lead waste pipe, 8c.; discount, 30 and 5 per cent.

Soil Pipe and Fittings — There is a strong demand, while the same quotations rule. We quote as follows: Medium and extra heavy pipe and fittings, 60 per cent.; 7 and 8 inch pipe, 40 and 5 per cent.

Iron Pipe Fittings—A large business is being done, prices continuing strong. We quote as follows: Malleable fittings 20 to 25 per cent. for American and 35 per cent. for Canadian; cast iron (standard), bushings, 65 per cent.; headers, 60 per cent.; flanged, unions, 60 per cent.; lipped unions, 60 and 5 per cent.; malleable bushings, 60 per cent.; nipples up to 6 inch inclusive, 75 per cent.

Copper Range Boilers — Trade is active. The discount of 15 per cent. continues.

Galvanized Iron Range Boilers—The activity in building circles is causing a large increase in trade. Quotations are unchanged as follows: 12 gallon capacity, standard, $4.50; extra heavy, $6.50; 18 gallon, standard, $4.75; extra htavy, $6.75; 24 gallons, standard, $4.75; extra heavy, $6.75; 30 gallon, standard, $5; extra heavy, $7.50; 35 gallons, standard, $6; extra heavy $8.50; 40 gallons, standard, $7; extra heavy, $9.50; 52 gallons, standard, $11; extra heavy, $14; 66 gallons, standard, $18; extra heavy, $20; 82 gallons, standard, $21; extra heavy, $24; 100 gallons, standard, $29; extra heavy, $34; 120 gallons, standard, $34; extra heavy, $40; 144 gallons, standard, $47; extra heavy, $55.

Iron Pipe—Demand continues very active, and purchases are being made in very large quantities. Prices are unchanged. We quote as follows: Black, 1-4 inch, $2.03, 3-8 inch, $2.06; 1-2 inch, $2.29; 3-4 inch, $2.87; 1 inch, $4.12; 1 1-4 inch, $5.62; 1 1-2 inch, $6.75; 2 inch, $9. Galvanized, 1-4 inch, $2.86; 3-8 inch, $2.89; 1-2 inch, $3.14; 3-4 inch, $4.02; 1 inch, $5.77; 1 1-4 inch, $7.87; 1 1-2 inch, $9.45; 2 inch, $12.60.

Solder—Prices continue firm with an active demand. Bar solder, half and half, guaranteed, is quoted at 19c.; wiping solder at 17 3-4c., and refined 18c.

Enameled Ware—A very firm demand is reported, orders being placed with the jobbers in large quantities. The new quotations on Canadian ware are as follows: Baths, rolled rim, 5 feet, 2 1-2 inch rim, 1st quality, $17.50, special, $15.50; 3 inch rim, 1st quality, $19.00, special, $17.00; 5 1-2 feet, 2 1-2 inch rim, 1st quality. $19.00, special, $15.50; 3 inch rim, 1st quality, $20.50, special, $18.50. Lavatories, discounts 30 to 40 and 5 per cent. Sinks, 18 x 30 inch, flat rim, 1st quality, $2.45; special, $2.

Knead 60 parts of clay and 10 parts of iron filings with linseed oil to make a thick paste. Add a little linseed oil just before applying and let it dry slowly. Will harden in two or three weeks.

OF INTEREST TO ALL.

"The proof of the pudding is the eating," is an old saying, and it might in another form apply to pudding steamers for the proof of the steamer is in the use of it. The M.B. pudding steamer (Macfarlane's patent) is a unique utensil for cooking a pudding. Mr. F. W. Lamplough, the agent in Montreal for the article, claims that this steamer embodies the only rational way of cooking a pudding. It includes simplicity, durability, utility, and in these qualities it avoids the possibility of burning, and in addition can be used for fish and meats. Full description of the steamer appears elsewhere in this issue, with illustrations.

SHEET BRASS AND COLD ROLLED COPPER

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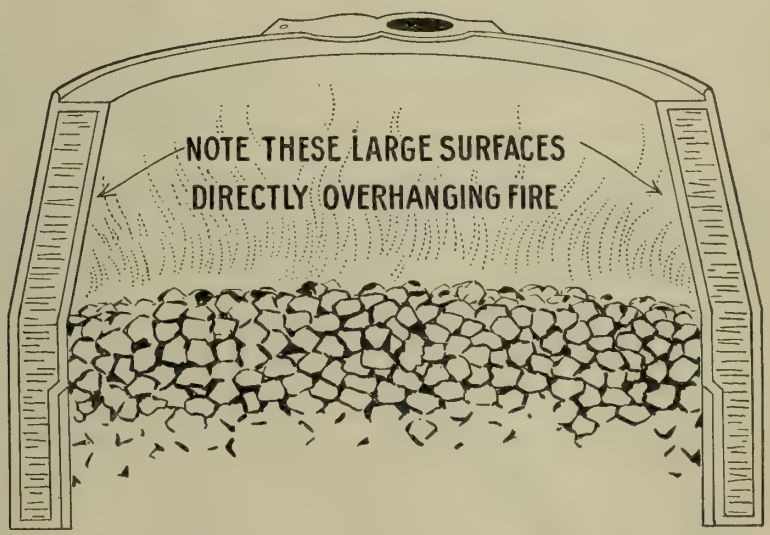
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General Appearance, Style
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If you want the best you must
carry our line.

Write for Catalogue. It will pay you.

SANDERSON-HAROLD CO., Limited
Manufacturers of
Refrigerators, Screen Doors and Windows
PARIS - - ONTARIO

The Oxford Boiler



The heating contractor as well as the building owner is interested in having an Oxford Boiler installed. The satisfaction and long service it gives to the owner redounds to the credit and good judgment of the contractor.

The Oxford Boiler is built to use absolutely all the heat generated in the fire-pot.

The inclining walls of the fire pit expose great surface to the direct heat of the fire. The first section is greater in depth than the other sections and the flues of this section are bell-shaped, so that a greater body of water gets the direct effect of the fire.

There is a large ash-pit fitted with a sifter which separates the good coal from the ashes.

The Oxford is a most powerful boiler and a great fuel economizer. We would like to have you read some of our booklets explanatory of the Gurney Oxford Steam and Hot Water apparatus. We send them free, on request.

The Gurney Foundry Co., Limited

TORONTO WINNIPEG VANCOUVER

The Gurney-Massey Co., Limited, Montreal.
The Gurney Standard Metal Co., Limited, Calgary, Alta.

GOOD LINE FOR HARDWAREMEN.

Metallic roofing, in its various forms, still continues to hold the attention of the tinner, and to grow in popularity with the public, but it is doubtful if the busy dealer takes sufficient time to properly appeal to prospective users of roofing.

We are all, more or less, creatures of habit, and it is quite natural, when in want of roofing, to use a style which is most familiar, and it behooves the progressive dealer to acquaint his patrons with the advantages of the roofing which he handles.

The lightning proof of metal roofing should not be lost sight of, as this feature alone should influence a prospective purchaser, while the fire-proof qualities and great durability of galvanized roofing makes its use most advantageous and desirable.

For the covering of farm buildings, corrugated sheets are particularly adapted, as sheeting boards can be dispensed with, and the total cost of a new building covered in this way does not exceed the regular construction with sheeting board and wooden shingles, and there are the added advantages which the fire and lightning-proof qualities afford.

For city and town buildings, suitable shingles and tiles in various patterns for any shape roof are now offered at comparatively low prices, and the manufacturers contemplate that in the near future metal roofing will largely supplant all other materials.

BUSINESS CHANGES.

ONTARIO.

G. F. Grosch, harness dealer, Milverton, has sold to F. G. Prueter.

A. H. McLeod, of Dean & McLeod, dealers in scales, Hamilton, is dead.

Joseph McCausland, of Jos. McCausland & Son, Limited, painters, Toronto, is dead.

M. H. Ash, Sebringville, blacksmith and wagon-maker, has advertised his business for sale.

W. F. Creighton, roofer and tinsmith, Hamilton, has admitted R. Jocelyn to partnership. The style of the firm will be Creighton & Jocelyn.

QUEBEC.

L. Arnoldi, hardware dealer, Montreal, has retired.

The assets of H. O'Brien & Co., painters, Montreal, have been sold.

J. K. Milford, harness-maker, Buckingham, is offering to compromise at 35 cents on the dollar.

MANITOBA AND N.W.T.

Reid & Irwin, dealers in agricultural implements, Deloraine, have dissolved partnership.

INCREASING THEIR OUTPUT.

The O-So-Ezy Manufacturing Co., of Canada, Limited, Montreal, who have been on the market during the past six months as manufacturers of a dressing for hardwood floors, have decided to move to No. 253 Bleury street about May 15. The future home of this company is larger and more conveniently situated and will accommodate both the office and manufacturing departments, which, in the past, have been separated. The decrease in the expenditures has warranted a reduction in the price of their product. Although this company have only been on the market a short time, the sales are noticeably increasing, and the majority of the retail hardware dealers are now handling their goods. The company have also begun the manufacture of stains, which when used with the dressing gives the floor a very nice appearance, these stains being guaranteed not to run when covered with water.

PAGE FENCES Wear Best

It is the fence that has stood the test of time—stands the heaviest strain—never sags—the standard the world over. In future Page Fences will be painted WHITE, which is an added protection against rust in addition to the galvanizing. Order through our local agent or direct from us.

THE PAGE WIRE FENCE CO. LIMITED, Walkerville, Toronto, Montreal, St. John, Winnipeg. 205

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ALL CAST Are time tried and worth proven.
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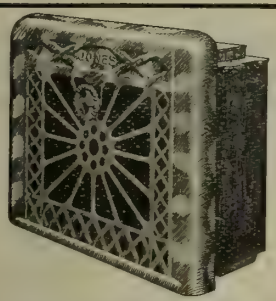
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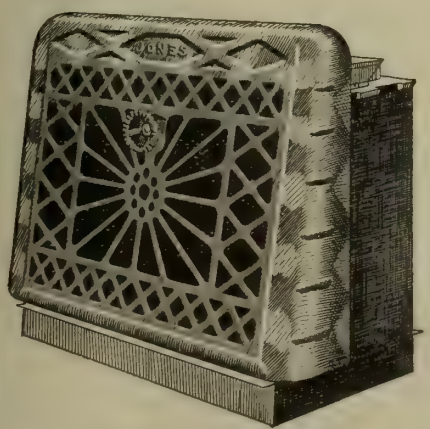
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THE CANADA METAL COMPANY

WILLIAM STREET, - TORONTO



A No. 12 JONES REGISTER
For second floor room. Bottom Collar fits 3¼x12 or No. 8 Wall Pipe.



A No. 15 JONES REGISTER
For first floor rooms. Bottom Collar, 7x14. These Registers are fitted with a Top Collar which fits 3¼x12 Wall Pipe or a plate when used for heating one room on the first floor.

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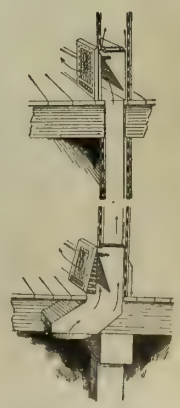
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These Registers have been on the market since 1901 and are used by between five and six thousand of the best urnace dealers in Canada and the United States.

By the use of Jones Registers the efficiency of the furnace is **increased**; at the same time, the cost of installing furnace is **reduced**

BE UP-TO-DATE AND USE THE BEST

There is included with each Jones Register, the register which is also a border, a double register box, a ventilator and a deflector. Wall pipes are two feet shorter and but one-half the number of basement pipes ordinarily used are necessary.



With Jones Registers but one-half the number basement pipes are necessary.

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Manufactured for
MERRICK-ANDERSON CO.
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HOME OFFICE

THE UNITED STATES REGISTER CO.,

LIMITED

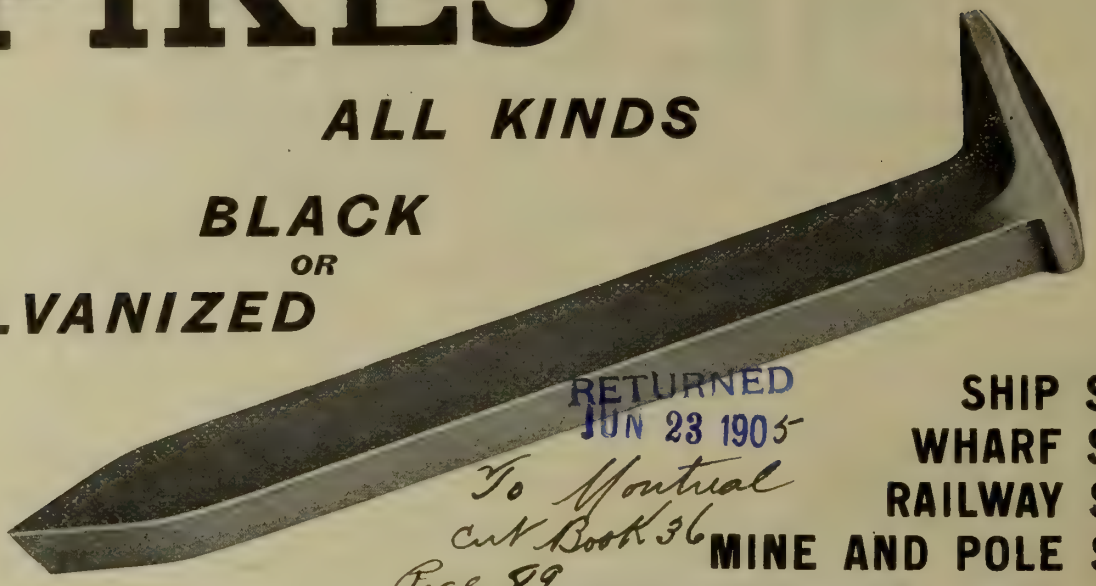
Burchard St. & D.T. & M.R.R., *BATTLE CREEK, MICH.*

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SPIKES

ALL KINDS

BLACK OR GALVANIZED



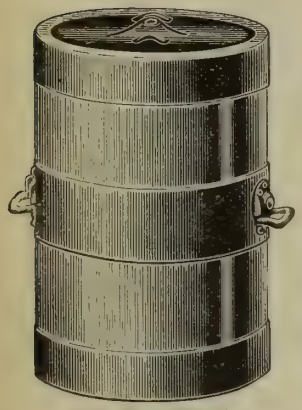
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We can fill all orders for these goods the same day they are received.

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NEW ADVERTISEMENTS :

Crain, Rolla L. Co., Ottawa, Can.
Eclipse Mfg. Co., Ottawa.
Round, John & Son, Sheffield, Eng.

CANADA'S BUILDING BOOM.

FROM all parts of Canada reports of building operations on a large scale are being received—big hotels, factories, business blocks, apartment houses and dwellings all being included in fair proportion in the lists of permits issued. Not only in the large cities but in the small towns is the activity evident, a glance at the building notes on another page amply proving this fact.

In Toronto building permits issued by the city architect for the four months, January to April, represent an expenditure of $2,084,914 in new houses, warerooms and factories. In April the amount was $898,196 for 365 buildings, campared with $492,432 for 236 buildings in April, 1904. During the first ten days in May permits were issued for buildings valued at upwards of $400,000; this including 90 dwellings costing approximately $250,000, and two large warehouses, one for the Massey Harris Co., to cost $125,000, and one for Brereton & Manning, to cost $25,000.

In Winnipeg so far this year 730 building permits have been issued, covering 980 buildings, to cost $6,010,800, compared with 520, aggregating $2,403,350 last year.

In Montreal similar activity exists, as during the month of April 158 permits were issued for buildings, valued at $658,001, as compared with 111 permits, representing an outlay of $438,243, for April, 1904. Ninety-one permits were also issued for alterations, valued at $98,347, as compared with 81 permits, representing a value of $67,595, for 1904. The first week in May also shows permits issued for about $180,000 worth of new structures.

Vancouver also makes a good showing, $180,000 being the value of the permits issued in April, about $100,000 of this being for dwellings valued at $3,000 or under, and indicating that there is a big demand for houses.

Statistics cannot be secured from all the towns and cities, but enough has been written to show that the growth is substantial, as in every city the growing population find it difficult to secure roofs to cover their heads. This is Canada's growing time, and while land speculating booms may overreach themselves in Fort William, Port Arthur, or Winnipeg, there is little possibility of more houses being built than there are people to fill them. Canada will see a wonderful development during the next quarter of a century in both the older industrial districts and the newer sections to be opened up by the new railway systems.

This means much for the hardware merchant, as he is called upon to supply almost everything that enters into the construction of a building to-day, from the shovel used in digging the excavation to the paint brush used in painting the structure after the hammer and other tools have done their work. And after a dwelling is built he also supplies the bulk of the articles used in the kitchen, as well as much that is required for other parts of the house.

New branches for the hardwareman are also presenting themselves, as a glance at our advertising columns will show. The passing of lumber, owing to its high prices, has caused an increasing demand for metal lath, metal roofing, metallic ceilings, rubber roofing, and building papers, all of which are lines the live hardware merchant will take up and make a specialty of, as he is as much the natural handler of these lines as he is of nails and hammers.

Another important branch is that of concrete construction, an article in our building department showing the extent of this branch of the building trade, particularly in the west. Cement and concrete block machines are articles which the hardware merchant should pay particular attention to if he is to catch his share of business and get in touch with the men who are to build houses, install furnaces and ranges, and buy hundreds of dollars' worth of goods to be found in the up-to-date hardware store.

SARNIA AFTER STEEL TRUST.

THE recent visit of the Steel Trust officials to Ontario points has been brought to public notice again by the announcement that the contract for much of the steel rails to be used by the G.T.P. has been let or is about to be let to the United States Steel Corporation on condition that it locates in Canada.

It is known that Charles M. Hays, head of the G.T.P., has close financial interests with the moneyed men behind the United States trust, and there is not the slightest doubt the United States company will get its share of the steel rail business.

Sarnia is hopeful of securing the plant, on which $10,000,000 will probably be spent, and have offered a site of 500 acres on the river bank and on the line of the Pere Marquette, who plan to spend $90,000 in improving their terminal yards at Sarnia. Sarnia's location is considered a favorable one, being convenient to both ore and coal fields, and being in a position to handle the Northwest trade at small cost.

The coming of the U. S. Steel Co. to Canada will not affect the local market at present, as it will take two or three years to erect the plant, during which time the Canadian steel plants will have ample time to establish themselves.

A BAD DELINQUENCY.

PEOPLE in Canada have become accustomed to the oft-repeated cry, "You should buy 'made in Canada' goods." Canadians have also heard such pieces of advice as, "You should patronize home industries," and "It will pay you to deal at home." On the face of them these cries look reasonable and it would seem as if our merchants were really called upon to follow them. But, unfortunately, there are two sides to the story.

The fact is that in many instances the man who adopts the "made in Canada" motto, does not live up to the standard which that motto unquestionably calls for. It is quite true that we Canadians should do all we can to help forward our industries. It is just as true that our industries should do all they can to merit our support. If the "made in Canada" cry is to be merely a big bluff, the sooner its double-facedness is exposed the better.

All this is but preliminary to the statement of a case in point, which has certainly worked up our ire. A merchant in a Canadian town received an order from a customer for an article which he did not carry in stock. It being an article seldom called for and one about which he knew but little, the dealer wrote to a Toronto correspondent asking where the article could be procured and adding that of course he would prefer to have it "made in Canada."

The reply came back promptly and the dealer was advised to write to a certain large Canadian manufacturer. Meanwhile the customer had become restless and wanted the article forthwith. The dealer hastily wrote to the manufacturer and urged an immediate reply, requesting that the article be forwarded by express C.O.D. as the matter was most urgent.

Now it happens that the dealer in question lives near the American border and he could readily communicate by telephone with a large American city. Notwithstanding, to favor a Canadian manufacturer at some distance away he was patriotic enough to endeavor to make a deal with him.

Several days passed, the customer became importunate and yet no reply from the Canadian manufacturer. Driven to extremity, the dealer telegraphed to the American city referred to and in short order the goods were delivered. A belated letter finally arrived from the Canadian firm, stating that at the moment they were unable to fill the order but would be in a position to do so soon.

What do our readers think of this? Does it not disgust one with the "made in Canada" cry? However prompt other manufacturers may be, this one delinquency of their confrere is enough to spoil all their chances with this dealer. The matter should be taken to heart by Canadian manufacturers.

FREIGHT DISCRIMINATION.

PRESS dispatches from England again report that English metal merchants are losing business in Ontario to American producers owing to unfavorable freight rates from tide water to Toronto. One large firm, the Franklin E. Saunders Co., have lost an order for 1,500 tons of tin plate, and amounting to about $100,000 in value, owing to their inability to obtain satisfactory reductions in freight rates west of Montreal, the C.P.R. refusing to bring the rates down to last year's level. Unless better terms can be secured the tin plate trade west of Montreal will fall altogether into the hands of the Americans, the English producers contend.

The Franklin Saunders Co. are an enterprising concern desirous of developing their trade in Canada, having been large shippers for many years, with representatives in Montreal. It would be regrettable if they were forced to withdraw, as, other things being equal, trade with the Mother Country should be given the preference.

In this case the trouble appears to be altogether with the railway charges, and C.P.R. officials claim that the Railway Commission is responsible, regulations put into force by the Commission preventing the granting of special concessions to large shippers. Last year these were granted, but this season the regular rates are being charged large and small shippers alike.

There are two viewpoints from which to consider the case. The general public would undoubtedly endorse the action of the Railway Commission in abolishing special privileges to large shippers, and the railways themselves are not likely to refuse to charge higher rates on large shipments if they know that the Commission is forcing all the railways to live up to the regulation. From a business standpoint, however, freight transportation cannot be viewed in any other light than as a commodity sold by railways to shippers. In every branch of business commodities are sold at special rates to large purchasers, and, with some justice, it is contended that freight rates should be considered the same as other commodities.

Where the Railway Commission should act is where unjust discriminations are made against any shipper of large or small quantities of goods, and if it can be shown that the Franklin Saunders Co. are being discriminated against, the Commission should lose no time in preventing the Americans from controlling the Ontario market and squeezing out competition from British firms. It is hard to believe, however, that the C.P.R. would be a party to throwing the market into the hands of the Americans, as in that case they would lose the long haul for a chance on a short haul.

The question of discrimination in freight rates by Canadian railways, to the injury of Canadian shippers, has been discussed in the House of Commons several times, and as recently as the 27th of last month. It was then shown that Canadian railway rates are higher than United States rates, and, also, that rates given by our own railways to United States shippers are better than those given to Canadians. For instance, tin plates shipped from England can be laid down in Chicago for 24s., while to lay the same goods in Toronto it will cost 23s. 6d. This means that these goods are being carried from Toronto to Chicago, a matter of 507 miles, for only 12c., and should be conclusive evidence that better rates are being given to shippers in the country to the south of us.

Mr. Emmerson, Minister of Railways and Canals, stated in the House of Commons that the Railway Act empowered the Commission to remedy grievances concerning freight rates, whether the charges were for local, standard, or through freight. He also stated that the Commission has power to deal with the rates made by a combination of several railway companies, to annul and void them, to make a new tariff altogether, and to specify what portion each railway should receive.

It is evident that such a condition of affairs as alleged is serious, not only to the British manufacturer, but also to the merchants and manufacturers of Eastern Canadian cities. If the Commission, therefore, fails to see justice done to Canada in this matter, it will not be because it has not plenty of power to remedy the wrong.

DEPARTMENT OF ADVERTISING SUGGESTION AND CRITICISM

Edited by Hardware and Metal's Advertising Expert.

WHY ADVERTISE?

TIME was when the news of one's world was learned by many only when they visited some distributing centre of news—the county town, the local post office, the church shed, or the blacksmith shop. Nowadays the daily or weekly paper carries promptly and accurately the news of county, of the nation, of the world. People could not in these times in which we live be satisfied with slow and uncertain and inaccurate information of "what's going on."

And so it is with news of business. People in the old days were careless about times and seasons for marketing: they went to town when it suited their convenience to go—on a rainy day, perhaps, when work on the farm had to be suspended; or when their pork was ready; or on Fair Day—and they took such surplus produce as they were able to spare, entirely ignorant of the fluctuation of markets. They bought, likewise, without knowledge of values or varieties, and went home to be absent for weeks, maybe months.

With the advent of the weekly and daily papers, with their market reports, with their advertising, a new order of affairs was ushered in, and men and women grew wiser in matters relating to their own welfare. They ceased to go to market in ignorance, and they had well-defined views as to what they wanted, and what they should pay.

It was much the same with the residents of the village, town and city. These people are consumers rather than producers, and live in constant sight of one another. Therefore, appearances count much with them—in dress, in homes, in possessions. Brown is more prosperous than Jones, and so Brown's home and family must be better furnished with things that the eye can appreciate. Accordingly, Brown's family are heavier buyers than Jones' family, and are responsive to the wiles of the merchant who lives upon the frailties and pride of men and women.

So the merchants found it profitable to proclaim in their local newspapers the wares they had to sell, and the price at which they sold them. To the rural dweller the low price appealed, for he was not so much concerned with fashions as with economies. To the citizen both high-priced and low-priced goods had an interest; to the one able to buy the costliest, nothing but the costliest would do; to him whose pocket-book was lean, the low-priced article was acceptable. By and by, when the humble buyer could afford it, he too, would buy the high-priced goods. Thus the merchant who proclaimed boldly and persistently in the people's newspapers the story of his goods attracted attention to his store, stimulated the buying habit, and drew revenue from rich and poor alike. The merchant who neglected or despised this vehicle for the transmission of his business story to those who were on the watch for just such news as he could tell, lost business, favor and prestige, and by his silence helped his advertising competitor to sell more goods.

As it was in earlier days, so it is today. Indeed, the necessity for newspaper advertising is greater than ever before, just because the public reads newspapers as never before—reads them for local news, for national news, for world news; reads them for business news—what to buy, where to buy, what to pay. The merchant who provides it with the best news, with the most satisfying news, wins favor, and favor means trade. It is truly remarkable to what extent people depend upon the announcements of merchants for their purchases; and how much influence a good advertisement has upon their decisions. A hardware dealer, for example, inserts an advertisement after the style of the following:

Aluminum Kitchenware.

Aluminumware has come to make cooking easy and eating safe.

Food can boil until dry in aluminum, without stirring or burning.

Griddle cakes can be fried on aluminum without grease.

Aluminum cannot flake, cannot burn on an ordinary fire, contains no acids, is non-porous, impervious to impurities.

Lighter in weight, longer in wear, cleaner and better looking than any other.

And not expensive:
—Round Griddles, $1.70, $2.50, $2.75.
—Oblong Griddles, $2.35 to $5.25.
—Pie Plates, at 15c to 25c.
—Roasting Pans, at 90c. to $1.50.
—Rice or Milk Boilers, at $1 to $2.10.
—Pudding Pans, at 35c. to 60c.
—Muffin Pans, at 45c. and 60c.
—Covered Roasting Pans, at $4.35.
—Covered Saucepans, at 50c. to $1.15.
—Preserving Kettles, at 75c. to $1.60.
—Tea Kettles, at $2.45 to $2.95.
—Coffee Pots, at $1 to $1.60.
—Covered Buckets, at 50c. to $1.
—Milk Shakers, at 30c. and 60c.
—Graduated Measures, at 25c. and 65c.

A practical demonstration of this ware now being made in our store

There is not a woman in all Canada that does her own cooking but what will read with full interest every line of such an advertisement: not only so, but who will be disposed to believe every claim thus made for aluminum, and who will eagerly scan the prices quoted for an answer to the inevitable question: "How much?"

What other better or cheaper way can the grocer and hardware dealer use to inform their customers concerning the provision they have made for domestic necessities? And how satisfactory to the buyer is it to know that she can get just the things she requires, to know where these things can be obtained, and to know their cost.

Advertising of this sort is always welcome, for it is prepared with real needs or known desires always in mind. It differs from that unwelcome, unread style of advertising which is boastful, noisy, and selfish; which is written with the writer's eye turned in on himself and his business, rather than directed towards the buyers and their necessities and desires.

Pouter-pigeon advertising never attracts; rather does it repel. But advertising that is helpful, suggestive, attractive and newsy, is bound to be read, and becomes a potent factor in the building up of any business.

A Parkhill Advertiser.

I AM in receipt of a batch of literature sent out by A. W. Humphries & Son, Parkhill, Ont.—one circular dealing with prepared paints, another with such things as wire fencing, barb wire, alabastine, whitewash and painters' brushes, builders' supplies, and bicycles. Another circular is devoted to the "Pandora" range, for which Humphries & Son are agents. And last, but not least, is a typewritten circular which covers the firm's business in a broad way.

While I am pleased, indeed, to get these examples of the advertising being put out by Humphries & Son, and while there is much about them to be commended, I cannot bring myself to say that I think their advertising first-class. The paint circular is not a good piece of work typographically, though the "copy" is fair. The circular devoted to wire, etc., cannot be said to be either tempting or convincing; and the type-written circular is much too long, and attempts to advertise too many things. However, it is unfair to judge one's advertising harshly without knowing all the facts, and I am reluctant to say an unkind word about what has come to my hand. I would suggest to Humphries & Son that they issue next time a store paper, neatly prepared and printed, and submit same before publishing to some competent advertising man for suggestions as to arrangement and display. To them, and to other readers of this department, I shall be glad to send on request a sample of a store paper issued by a grocery firm in Northern Ontario. It will show how store news can be issued attractively, inexpensively, and profitably.

Markets and Market Notes

(For detailed prices see Current Market Quotations, page 66.)

Quebec Hardware Markets

Office of Hardware and Metal,
232 McGill Street,
Montreal, May 12, 1905

THE unusual rush caused by the opening of navigation has once more subsided and trade has resumed its regular routine. Well-assorted orders continue to arrive, and the trade in general has a healthy appearance. Screws continue to have a heavy demand from manufacturers of furniture and kindred lines, which makes it difficult to obtain certain sizes. Shelf hardware is very firm, and it would not be surprising if an advance occurred in the near future. Sporting goods are beginning to have a better demand. During the past week some large orders have been booked. Trade is expected to remain steady for the next few months. In the Fall large orders will be booked for articles which are needed more during the colder months.

Axes—The demand on this market still continues to be quiet, although a few orders have been booked during the past week. Our quotations are: Chopping axes, unhandled, $6 to $9.50 a dozen; double bitt axes, $9.50 to $12 a dozen; handled axes, $7.50 to $9.50; Canadian pattern axes, $7.50 a dozen.

Handles—A fair demand continues to be prevalent. Prices remain the same, and at present there is no indication of a change. We quote the following prices: Axe handles, No. 3, $1.25; No. 2, $1.50; No. 1, $1.90 a dozen; adze handles, 34 inch, $2.20 a dozen; pick handles, No. 2, $1.70; No. 3, $1.50 a dozen.

Sewing Machines—The Spring moving among the local tenants and the regular change caused by the good times has enabled many people to purchase sewing machines. Therefore the sales this year are in advance of those of last year. Good prices have been obtained in the majority of cases. Our quotations are: Hand sewing machines, $11 each net; complete machines with stand, $18 and up, according to quality.

Lanterns — Few orders are being booked at present, and the supposition is that retail dealers are holding off until they become satisfied regarding the stability of the price. Our quotations are as follows: Cold Blast, $4.50; No. 0 Safety, $3.50.

Barb Wire—The increase in the amount of fencing this Summer has greatly increased the sales. No delay as yet has been caused on the part of the manufacturers in shipping orders, which is probably due to the fact that large amounts of wire were held by the retail dealers at the close of last season. Trade has a healthy aspect. Our quotations are as follows: $2.75 for 100 lbs. f.o.b. Montreal; $2.37 1-2 f.o.b Cleveland. Carlots of 15 tons, $2.25 f.o.b. Cleveland.

Fence Staples—The extensive operations in the fencing industry have caused a heavy demand for staples. Prices are firm, but as yet no advance has occurred. We quote the following prices: $2.65 per 100 lbs. keg, for bright, and $3 for galvanized; 25 to 50 lb packages 25c. extra.

Rivets and Burrs—A steady trade continues to be prevalent. Prices are firm, and this fact has given the average retail dealer much confidence in buying, inasmuch as orders have greatly increased over previous years. We quote as follows: Best iron rivets, section, carriage and wagon box, black rivets, tinned do., copper rivets and tin swede rivets, 60, 10 and 10 per cent.; swede iron burrs are quoted at 60 and 10 and 10 per cent. off new lists; copper rivets with the usual proportion of burrs, 45 per cent. off; and coppered iron rivets and burrs in 5 lb. carton boxes at 60 and 10 and 10 per cent.; copper burrs alone, 30 and 10 per cent., subject to usual charge for half-pound boxes.

Screws—There is a heavy demand at present. A slight difficulty still continues in regard to obtaining certain sizes. Prices are firm, but there is no indication at present which would tend to show that an advance is to take place. Our quotations are: Round head, bright, 82 1-2 per cent.; flat head, bright, 87 1-2 per cent.; brass, round head, 75 per cent.; brass, flat head, 80 per cent.

Bolts and Nuts—A heavy demand has been prevalent this year from the retail hardware merchants owing to the extensive operations of the Canadian machine shops. Prices remain unchanged, and there is no indication at present which would warrant an advance.

Wire Nails—The extensive operations in the building trade have increased the demand for wire nails. This demand has also been increased from the fact that the wire nail is replacing the cut nail in many instances. We quote the following: $2.25 a keg, f.o.b., Montreal.

Cut Nails—There is only a fair demand on this market. At present the market has a tendency to weaken, but no change in prices is likely to occur. Our quotations are: $2.20 a keg, f.o.b., Montreal.

Horseshoes—The demand for horseshoes has become weaker, and it is supposed that dealers have concluded stocking up. Prices are firm in all cases, but no advance is anticipated. Our quotations are: P.B. New Pattern, base price. $3.50 per hundred pounds; M.R.M. Company latest improved pattern iron shoes, light and medium pattern, No. 2 and larger $3.65, No. 1 and smaller $3.90, snow pattern, No. 2 and larger $3.90, No. 1 and smaller $4.15. Light steel shoes, No. 2 and larger, $3.90, No. 1 and smaller $4.15; featherweight, all sizes 0 to 4, $5.50; toe weight, all sizes 1 to 4, $6.75. Packing—Up to three sizes in a keg ten cents per hundred pounds. More than three sizes twenty-five cents.

Horse Nails—The rush in the shipping of orders which was so prevalent a week ago has subsided, and trade of this week has a steadier appearance. The demand at present is not as heavy as it was some weeks ago, which in all probability is due to the fact that merchants have concluded stocking. Prices continue unchanged.

Sporting Goods—Orders are beginning to arrive more freely, and it is expected that by the time the regular shooting season opens large orders will be booked. No change has as yet occurred in the price of single barrel guns, but there is strong probability that a change will occur in the near future. We quote the following prices: Canadian-made shells, black, 25 and 5 per cent.; smokeless, 25, 10 and 5 per cent.; American centre-fire cartridges, list net; sporting and military, 10 per cent. advance on list; primers, $2.05 per thousand; American loaded shells, 20 per cent. discount; B. B. caps, $2 per thousand; C. B. caps, $2.60 per thousand; standard shot, $6.50 per hundred lbs.; chilled, $7 per hundred lbs.; buck and steel, $7.50 per hundred lbs.; ball, $8 per hundred lbs. We quote discounts 15 per cent. on shot f.o.b. Montreal, Toronto, Hamilton, London, St. John, and Halifax.

Building Paper—A good demand still continues to be prevalent. Large amounts of building paper are being used in the western part of Ontario and the Western Territories, where the building operations have advanced more rapidly than they have in the eastern part of the Dominion. Trade has a very healthy appearance, and although the season last year was exceptionally brisk, still local merchants are looking forward to the business of this year eclipsing anything transacted heretofore.

Cordage—Cotton rope and small cord for household purposes has an excellent demand. Implement dealers and retail hardware merchants are beginning to purchase large amounts of binder twine to meet the demand which they expect to originate within the next few weeks. No change has occurred in the price list.

Cement and Firebrick — Now that

navigation has opened and transportation by steamship is well under way the price of English and Belgian cements has declined during the past week owing to the large shipments which have arrived. Locally there is a good demand, but in smaller towns throughout the Eastern Provinces it is still inclined to be quiet. The fresh arrival of Scotch firebrick is the cause for the decline of $1.00 which has occurred during the past week. We quote the following: English cement, $1.80 to $1.90; Belgium, $1.60 to $1.90 per barrel; ex-store, American, $2.00 to $2.10 ex-cars; Canadian Portland, $1.90 to $2.00. Firebrick, English and Scotch $17 to $21, American $30 to $35.

Coil Chain—Some good orders have been booked during the past week. Prices are firm, but no change has occurred. We quote: 5-16 inch, $4.25; 3-8 inch, $3.75; 7-16 inch, $3.55; 1-2 inch, $3.35; 9.16 inch, $3 .30; 5-8 inch, $3.20; 3-4 inch, $3.05; 7-8 inch, $3; 1 inch, $2.95.

Green Wire Cloth—The demand this week is weaker than heretofore, which in all probability is due to the fact that the heavy demand which prevails at the beginning of each Spring has vanished. Our quotations are: Per hundred square feet, $1.50.

Poultry Netting—A fair demand continues to exist on this market. Prices are firm, but at present there is no indication that would warrant an advance. Discounts for two inch nineteen gauge standard, and sixteen gauge extras, at 60 per cent.; finer meshes, 55 per cent.

Spring Hinges—Trade is steady, but beyond this fact nothing of a very noteworthy character has occurred during the past week. Prices remain the same. We quote as follows: No. 5, $7.25 per gross; No. 19 $18 per gross; No. 20, $18.80 per gross; No. 120, $20 per gross; No. 51, $9.25; No. 50, $27.50.

Ontario Hardware Markets.

Office of HARDWARE AND METAL,
10 Front street east,
Toronto, May 12. 1905.

BUILDERS' hardware is in active demand, and while jobbers are still able to supply all orders the tremendous rush in building in all parts of Canada may cause a scarcity later on. Some manufacturers have been cautious about making up stock in advance, but there appears to be little reason for fear that any of this season's goods will be carried over for another year.

Work is well advanced on structures in the course of erection, and tools, nails, roofing, cement, and other building materials are in strong demand. The slowness of the rainfall and hot weather has retarded the growth of some crops, thus allowing farmers to do many fencing and building jobs between seeding and other Spring work. Local merchants have, therefore, had a fair trade, although in some quarters refilling orders have been slow. Sporting goods are moving actively, and lawn mowers and other Summer goods are in active call.

Lawn Mowers — Orders are being actively placed, the season being now on.

Sporting Goods—Fishing tackle, baseball and outdoor athletic goods are in strong demand.

Washing Machines—A very large trade in washers is reported.

Chain—There is still an active call for chain, particularly for the small sizes used in the agricultural districts. We quote: 1-4 inch, $6.50; 5-16 inch, $4.45; ⅜ inch, $3.85, 7-16 inch, $3.70; ½ inch, $3.55; 9-16 inch, $3.45; ⅝ inch, $3.35; ¾ inch, $3.25.

Step Ladders—The demand continues very good, and a large movement of goods is reported. We quote at 10c. per foot for 3 to 6 feet, and 11c. per foot for 7 to 10 feet ladders.

Extension Ladders—Sales are reported to be fairly large. Waggoner, 40 per cent. off list.

Galvanized Wire—Much trade is reported doing, although the season is a little late. We still quote: $2.37 1-2 f.o.b. Cleveland.

Coiled Spring Wire—The demand continues strong, farmers using a large quantity for fencing. Prices are the same.

Barb Wire—A large volume of business is being done.

Wire Nails—The nail trade continues very good, prices being unchanged. Nominal quotations are $2.25 f.o.b. Toronto.

Cut Nails—The call for cut nails continues steady. Prices remain firm. Quotations are $2.40 per keg f.o.b. Toronto.

Horseshoes—A good trade is being done. We quote: "P. B." base, $3.65; "M.R.M. Co., latest improved pattern" are: Iron shoes, light and medium pattern, No. 2 and larger, $3.80; No. 1 and smaller, $4.05; snow No. 2 and larger, $4.05; No. 1 and smaller, $4.30; light steel shoes, No. 2 and larger, $3.95; No. 1 and smaller, $4.20; featherweight, all sizes, 0 to 4, $5.50; toe weight, all sizes, 1 to 4, $6.75. If shipped from factory 15c less.

Horsenails — There is a very good demand, and prices remain unaltered.

Screws—The volume of business being done is very satisfactory. Prices are unchanged.

Rivets and Burrs—The firm price of iron products has not caused a decrease in the demand. Prices are unchanged.

Bolts and Nuts—Call for goods continues active. Quotations remain as before.

Woodenware—All lines are moving actively, the season being favorable.

Cordage—During the next few weeks there will be a large movement of binder twine. The low prices still rule. Our quotations are as follows: Red Cap, 11½c; Tiger, 10½c; and Standard, 9½c; manila, 14½c; British manila, 11c; sisal, 10½c; double lathyarn, 10½c; single lathyarn, 10c; sashcord, "Hercules," 30 to 32c; "Star," 36 to 38c; cotton twine, 3-ply, 24c; 4-ply, 29c; calking cotton, 16½ to 17c; cotton waste, colored, 6¾c; white, 11 to 13c.

Cement — Little competition from American manufacturers has been noted this year as yet. Trade is very active and prices stiffening. We quote: For carload orders f.o.b. Toronto, Canadian Portland, $1.70 to $1.80; American Portland, $1.70 to $1.80. For small orders, ex warehouse: Canadian Portland, $2; American Portland, $2.

Firebrick—Trade is now active, and stocks are being replenished. Quotations continue at: English and Scotch firebrick, 30 to 35c; American, low-grade, 25 to 30c; high-grade, 32 1-2 to 40c.

Building Paper—Demand for building paper is very brisk, new buildings in course of erection being well advanced both in the east and west.

Hides, Tallow, Skins and Wool.

The wholesale trade report a fairly active demand for hides this week, so much so that the market is cleaned up for the moment. The tanners seem to have loosened up all of a sudden and travelers report that it is difficult to secure more than from two to four hides in a single place. Farmers, too, are holding off for higher prices. The Chicago market, which always has more or less influence on local prices, continues very high with no inclination to drop. We quote the following prices:

Hides, No. 1 green steers, per lb		0 09
" " 2 " " "		0 08
" No. 1 green, per lb		0 08½
" " 2 " "		0 07½
Country hides, flats, per lb	0 07	0 07½
Calf skins, No. 1, selected		0 11
" " No. 2		0 09
Deacons (dairies), each		0 80
Sheep skins		1 25½
Rendered tallow, per lb	0 04	0 04
Unwashed wool, new clip, per lb	0 13	0 14
Pulled wools, super, per lb	0 21	0 23
" " extra "	0 22	0 24

METAL MARKETS.

NO special features are noted in the Toronto market this week, goods from England not having arrived in any quantity as yet. Prices are unchanged with the exception of iron, English pig being now quoted a dollar less, while bar iron has been shaded a trifle. No drop is expected in other metals, the freight rates preventing importations from England causing cuts in the western markets. General activity is the rule, the demand continuing very active.

Our Montreal office reports that brands of pig iron which are imported from Great Britain have declined during the week, on account of the cheaper freight rates caused by the opening of navigation. Orders for pig iron are beginning to arrive more freely now that the purchaser is aware that he can secure the material. The market in general is unsteady. During the week ingot copper, ingot zinc, ingot tin, and pig lead have continually fluctuated, until no definite idea can be formed regarding the true state of conditions. Prices in general were considerably lower at the beginning of the week. They have however again become firmer. How long this present condition will continue it is hard to judge. Everything on the market is moving more freely. Such articles as Canada plates, black sheets and galvanized iron, have an excellent demand from the manufac-

TORONTO BRANCH

For the convenience of our customers we are opening a new office and warehouse at

50 Yonge St., Toronto

PEDLAR

"Keeping Everlastingl

No. 4. OSHAWA,

About Catalogues

WE, as you know, issue and distribute to the trade a very fine catalogue. One issue cost us $10,000. Every copy costs us 32c. postage, but we would send you one if the postage was $1.00. You have one, perhaps two. Do you want another? We will gladly send you one and you can keep it, even if you never send us a dollar's worth of business. It is true that we are actuated only by the desire to increase our trade in sending this catalogue, but we will not feel sore, nor send you any insulting circular, if you deign to place your patronage elsewhere. We will merely keep sending you our literature, for

"Keeping Everlastingly at it Brings Success"

Too Much "Perfect" Metal Lath Talk?

Hardly! We have the best there is, and the price puts it within reach of the everyday builder—the man who wants fire protection and, heretofore, has had to pay for it "through the nose" if he got it at all.

PEDLAR PERFECT METAL LATH

P.M.L. stands for more than the mere name. It also spells

POOR MAN'S LATH

because, as we have said, the price puts it where slender pockets can make use of it.

ITS EXCELLENT FEATURES:

- ***(a) Low price, (10c. Sq. Yd.)***
- ***(b) Positive Key***
- ***(c) Ease of application and consequent saving therein***
- ***(d) Its resistance of abuse and all climatic changes***
- ***(e) Adaptability to varied uses***

"Tempus Fugit," Mr. Hardwareman. Don't, as the school boy said, "let her fuge." Talk PEDLAR METAL LATH to every man (woman too) who buys a pound of nails. They may be builders to-morrow, if only customers to-day. The building season is with us, and metal lath sales mean dollars to you that would inevitably go elsewhere if your customers buy the old, unsanitary wood lath. Besides, they bring other sales in their wake. Let us know who are building in your locality. We cover the ground in your interests. Let us fraternize. It's for the good of our Canadian homes. Let us "keep everlastingly at it"—that spells success.

Metal Ceilings

Do you want to do the trade in Metal Ceilings in your vicinity?

We will tell you how: Carry it in stock.

Take for instance panels Nos. 4, 5, 6, 7, 8, and 9, in our catalogue. With these goods you can make over 100 different arrangements. Every ceiling will be differ-

TALKS

at it Brings Success."

NT. May 13, 1905

OTTAWA BRANCH

On May 1 we opened a new Branch Office at

423 Sussex St. Ottawa

ent in design. Now, 4 and 7 will make border corners or centre pieces. Nos. 5, 6 and 9 make borders, either separately or combined.

Stock for instance 20 sqs. 8, 3 sqs. 9, 2 sqs. 6, 2 sqs. 5, 2 sqs. 6, 2 sqs. 4, 1 sq. 7, 1,000 feet No. 286 cornice, 2 dozen inside mitres, 1 dozen outside mitres. With these goods no mouldings, cutting waste, are necessary.

When your customer wants you to erect a ceiling you can tell him that you will start to-morrow. See the point ?—to-morrow—that gets the job. Our traveling representative will talk it over with you. It deserves consideration.

We have a large and competent staff of crackerjack salesmen, whose duties are to visit you regularly, or at your request, and assist you. THEY CAN SELL OUR PRODUCT if you will assist us.

Do You Know ?

Do you know what merchants do the largest Metal Roofing business in the country ?

We do ! It's the merchant who carries "Pedlar's Product" in his warehouse.

Why is this ? Firstly, because he will, by purchasing a stock buy cheaper, and consequently sell cheaper, than his neighbor. Secondly, because he will be able to give immediate delivery. Thirdly, because we will assist him to sell, and keep him posted on all inquiries from his district. Fourthly, because he will be selling the highest class of Metal Roofing made on earth.

How much Barbed Wire, Binder Twine, Nails, and other staples would you sell if you had to send to the manufacturer every time to fill an order ?

Metal Roofing is a staple but a more profitable product than these.

Think It Over on Sunday.

THE PEDLAR PEOPLE

OF OSHAWA, ONT.

Montreal, 767 Craig St. ***Ottawa, 423 Sussex St.***

Toronto, 50 Yonge St.

WRITE YOUR NEAREST OFFICE

This is our
SAFE LOCK
SHINGLE



The SHINGLE
with a
reputation

The Best Construction—A Good Looker—and a Trade Winner.

We believe that we have a line of

Metal Building Goods

with which any dealer can easily build up a profitable trade, and we gladly co-operate and keep our customers in a position to get business.

If you have not received our new Catalogue and Price List, ask for them.

OUR LINE:

SAFE LOCK SHINGLES,
Galvanized and Painted.

ORNAMENTAL SHINGLES and TILES,
Several patterns to select from.

SIDINGS, LARGE and SMALL SHEET,
Imitating Brick, Stone, Etc.

CORRUGATED SHEETS,
Any size or gauge.

V CRIMP and BEADED SHEETS.

ACME READY ROLL ROOFING.

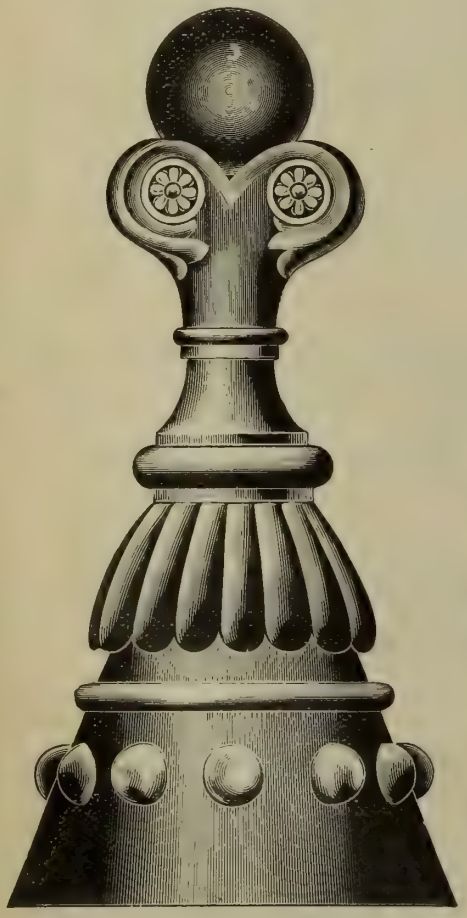
METAL CEILINGS,
Gothic and Louis XIV classifications and sundry patterns.

CORNICES,
Of every description from stock designs or to architect's drawings.



Plate 4001.

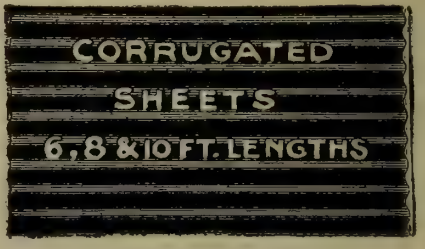
SKYLIGHTS, FINIALS, CRESTINGS, VENTILATORS, RIDGINGS, WINDOW AND DOOR TRIMMINGS, TROUGHING, CONDUCTOR PIPE, THIMBLES, GALVANIZED PUMPS, STANCHIONS aud WATER BOWLS.





Metal Shingle & Siding Co.
Preston, Ont. Limited

Alberta Agency, Ellis & Grogan, Calgary.
Northwest Agency, Clare & Brockest, Winnipeg.
Montreal Agency, J. B. Dagenais, 953 St. James St.



PORTLAND CEMENT

DRAIN PIPES, CULVERT PIPES,
SEWER BRICKS, INVERTS,
FIRE BRICKS, FIRE CLAY,
BUILDING BRICKS,
FIRE PROOFING
ROAD PAVING BRICKS
and BLOCKS.

Correspondence Invited

F. HYDE & CO.
KING, QUEEN and WELLINGTON STS.
MONTREAL

Deseronto Iron Co.
LIMITED
DESERONTO, ONT.
Manufacturers of
CHARCOAL PIG IRON
BRAND "DESERONTO."

Especially adapted for Car Wheels, Malleable Castings, Boiler Tubes, Engine Cylinders, Hydraulic and other Machinery where great strength is required; Strong, High Silicon Iron, for Foundry Purposes.

"MIDLAND"
BRAND.
Foundry Pig Iron.

Made from carefully selected Lake Superior Ores, with Connellsville Coke as Fuel, "Midland" will rival in quality and grading the very best of the imported brands.

Write for Price to Sales Agents
Drummond, McCall & Co.
MONTREAL, QUE.
or to
Canada Iron Furnace Co.
MIDLAND, ONT. Limited

Get our prices for
GALVANIZED FLAT SHEETS
THE "VANDA" BRAND
For all purposes requiring the best quality.

It is "deadflat," well galvanized, true to gauge and specially soft for working-up. We guarantee every sheet bearing our brand.

C.F. JACKSON & CO., Limited
Wholesale Merchants
Ormidale Block, Vancouver, B.C., and
Liverpool, England
Direct Importers of:
Metals of every description, Wire Rope, Portland Cements, Firebricks, Ore Sacks, Grain Bags, etc, etc.

turers of graniteware, metal roofing, pails, cans, etc.

Quebec.

Office of HARDWARE AND METAL,
232 McGill Street.
Montreal, May 12, 1905.

Pig Iron—During the week a reduction in the price of Glengarnonk, Carron Nos. 1 and special, and Ayresome, Nos. 1 and 3, brands of pig iron, has occurred. These reductions range from 50c to $2.00. Orders are beginning to arrive more freely for imported iron. We quote the following:

"Disc," No. 1	$16.50	delivered Montreal.
"Dom.," No. 1	17.50	" "
Usual difference in price for lower grades.		
Ferrona No. 1	$18 00	delivered Montreal.
" No. 2	17.50	" "
" No. 3	16 50	" "
" No. 4	16.00	" "
Londonderry	$18.50 to $19.00	" "
Glengarnock	18.25	" "
Gartsherrie	19.25	" "
Carnbroe	18.50	" "
Carron No. 1	19.00	" "
" (special)	18.00	" "
Ayresome No. 1	18.25	" "
" No. 3	17.50	" "
Summerlee	18.50 to 19.00	" "
Clarence No. 1	17.50	" "
" No. 3	17.00	" "
No. Cleveland	17.50	" "

Bar Iron—There continues to be a brisk trade for bar iron. Prices continue unchanged. We quote: Merchant bar, $1.80; horse-shoe iron, $2.02½; forged iron, $2.05; best refined iron, $2.20 net cash thirty days.

Tool Steel—Orders are not arriving as frequently as some weeks previous, and it is estimated that merchants have concluded purchasing for the present. Prices remain the same. Our quotations are as follows: Colonial and Black Diamond, 8c to 9c; Sanderson's, 8c to 45c, according to grade; Jessop's, 13c; Jonas & Clover's, 10c to 20c; "Air Hardening," 65c per lb.; Conqueror, 7½c; Conqueror High Speed steel, 60c.

Merchant Steel—No change has occurred with the prices during the past week. As merchants have concluded purchasing for the Spring trade conditions are only expected to be fair for the next few months. Trade will brighten up again just before the closing of navigation, when the majority of retail dealers will stock up for the Winter trade. We quote the following: Sleigh shoes, $1.97 1-2: tire, $2.07 1-2; spring, $2.75; toecalk, $2.65; machinery iron finish, $2.10; reeled machinery steel, $2.75; mild, $2 and upwards; rivet, $2.00 and upwards. Net cash thirty days.

Cold Rolled Shafting—No change has occurred in the conditions of this market. Prices continue unchanged. We quote the following: Cold-rolled shafting, 3-4 inch to 17-16, $3.85 per 100 lbs.; inch and a half to 3 inch, $3.50 per 100 lbs.

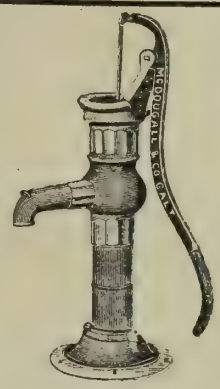
Canada Plates—Trade continues to be brisk. Canada plates are firm, and prices are likely to go higher. It is reported that bars have advanced in Wales. We quote: 52's, $2.35; 60's, $2.40; 75's, $2.45; full polished, $3.60; galvanized, 52's, $3.90 to $4.00; 60's, $4.15 to $4.25.

Galvanized Iron—Conditions on this

Bar Steel
Cold Rolled
Reeled Machinery
and Iron Finish

From stock or for import.
Prices right.

A. C. LESLIE & CO.
MONTREAL.



Enterprising Hardwaremen
handle our
ANTI-FREEZING PUMPS.

They know that the sale of a good Pump brings about the sale of many other things from satisfied customers.

Do you handle our PUMPS?

Write for catalogue and prices.

The R. McDougall Co., Limited
GALT, ONTARIO.

BAINES & PECKOVER
TORONTO.
Ontario Agents for
B. K. MORTON & CO.'S
"ALPHA"
HIGH SPEED STEEL
AND
Crucible Cast Steel
Large stock on hand. Send for Stock List

NOVA SCOTIA STEEL & COAL CO., Limited
NEW GLASGOW, N.S.
Manufacturers of
Ferrona Pig Iron
And SIEMENS-MARTIN
OPEN HEARTH STEEL

market have become firmer during the past few days, and a good demand is prevalent at the present moment. Prices, however, continue unchanged. Our quotations are as follows: Queen's Head, 28 gauge, $4.15; 26 gauge, $3.90; 22 to 24 gauge, $3.65; 16 to 20 gauge, $3.55; Apollo, 28 gauge, $4; 26 gau $3.75; 22 to 24 gauge, $3.75; 16 to 20 gauge, $3.40; Fleur-de-Lis, 28 gauge, $4; 26 gauge, $3.75; 22 to 24 gauge, $3.50; 16 to 20 gauge, $3.40; Comet, 28 gauge, $3.95; 26 gauge, $3.70; 22 to 24 gauge, $3.45; 16 to 20 gauge, $3.40; Bell brand, 28 gauge, $4; Gorbal's "Best Best," 28 gauge, $4.15; "Windmill Best," 28 gauge, $3.95; Sword and Torch, 28 gauge, $4.05, in less than case lots, 25c extra.

Black Sheets—No distinct change has occurred within recent days. Trade is steady and prices continue unchanged. We quote: 28 gauge, $2.15; 26 gauge, $2.10; 22-24 gauge, $2.05; 19-20 gauge, $2.20; 8-10 gauge, $2.30.

Antimony—Conditions on this market continue unchanged. Our quotations are: From 9 to 9 1-2c.

Sheet Zinc—Sheet zinc has a good demand. The market which was easier some time ago has now become firmer, and the outlook at present is for firmer prices. We quote: Case lots $7.00, small lots $7.25.

Tin Plates—Conditions at present are firm. The latest reports state that the market is advancing. No change has, however, occurred as yet. Our quotations are: Cokes, $3.75; charcoal, $4.00.

Ingot Tin—The market, which was inclined to be unsteady a few days ago, has now settled, although the tone at present is slightly easier. No change has occurred in the price list, but it is estimated that larger orders could be purchased for a little less. The present price ranges from 33 to 33 1-2c.

Ingot Copper—This market has become quieter. The conditions at present are steadier than they have been for some time. The tone of the market is easier and it is said that large orders can be purchased at a smaller figure than that which is quoted below. We quote the following: 16c to 16 1-4c.

Ingot Zinc—After a series of fluctuations the market has at last settled with a firmer tone in evidence. Although firmer no advance is anticipated. We quote the following: 6 1-2c. to 6 3-4c.

Pig Lead—This market has become steady. Orders are moving more freely, and the outlook at present is brighter than it has been for some time. Our quotations are: From $3.35 to $3.45, no concessions being obtainable.

Boiler Tubes—Only a fair demand exists on this market. Trade continues to be steady. We quote: British and American tube, 1 1-2 inch, 8 1-2c; 2 inch, 8½c; 2½ inch, 10c; 3 inch, 12¼c; 3½ inch, 16c; 4 inch, 20c; 5 inch, 45c. Price per foot net.

Scrap Metal and Old Material — Latest reports state that trade in steel on the American market is quiet. Prices on the English market are so low that the local men who have a surplus stock on hand cannot afford to export. The duty on the other hand between the United States and Canada affects the local exporter, inasmuch as he cannot export to the American market without paying a heavy duty. This he is not likely to do, as it would result in a direct loss. Therefore, under these circumstances, there is a strong tendency for a reduction of prices. Old rubbers have a tendency to become weaker, but as yet no change has occurred. We quote the following: Heavy copper and wire, 12 3-4c.; light copper, 11 1-2c; heavy red brass, 10 1-2c.; yellow brass, from 8 3-4c. to 9c.; light brass, 8c.; lead, 2 1-2c.; zinc, 3 3-4c.; machinery cast scrap, $14.00; wrought scrap, $14.00; stove-plate scrap, $11.00; No. 1 country rags, 75c. to 90c. per hundred lbs.; old rubbers, 5c.

Ontario.

Office of HARDWARE AND METAL,
10 Front street east.
Toronto, May 12, 1905.

Pig Iron—Trade improving, and the mills are booked up with orders. A steady demand exists. We quote:

Middlesboro, f.o.b., Toronto	$20 00	$20 50
Hamilton, No. 1, at furnace	18 00	18 50
" No. 2, "	17 50	18 00
Midland, No. 1, "		18 50
" No. 2, "		18 00
Radnor, at furnace		30 00
Londonderry, at furnace	16 50 to	17 00

Bar Iron—A brisk trade is reported with prices firm. Quotations are as follows: $1.85 f.o.b. Toronto, with discount of 2 per cent.; for extras as cut to length, while rolling, 2 feet and over, 10c per 100 lbs.; 1 foot and under 2 feet, 15c; under 1 foot, 20c; over 20 feet, by special agreement according to length and size.

Tin—The market is very firm with a strong demand. Prices continue unchanged. We quote from 33 to 34c. per lb.

Galvanized Sheets—Firmness is evident, the call for goods being heavy and prices the same.

Tin Plates — Demand continues very active and prices firm.

Canada Plates—Trade continues active at the same prices.

Brass—Trade is active and prices firm. Discounts are 10 per cent.

Lead—More strength is shown this week, buying being active at firm prices. We still quote: Pig lead, $3.80 per 100 lbs.. and bar lead, $4.80 per 100 lbs.

Zinc Spelter—Trade is reported to be active, the former prices being firm and unchanged. We quote: 7c. per lb. for foreign and 5½ to 5¾c per lb. for domestic.

Copper—Weakness is showing itself in copper, although not so much as in other markets. Prices remain as follows: Ingot copper, 16 1-4c. per lb., and sheet copper, 21c. per lb.

Antimony—A fair movement is reported, the market being quite active. No changes are noted in quotations.

Old Material—The expected decline in copper has taken place, and half a cent less is being offered. Other lines are active. Our quotations are as follows: Heavy copper and wire, 12 1-2c per lb.; light copper, 11c. per lb.; heavy red brass, 10½c per lb.; heavy yellow brass, 9c per lb.; light brass, 7c per lb.; tea lead, $2.40 per 100 lbs.; heavy lead, $2.60 per 100 lbs.; scrap zinc, 4c per lb.; iron, No. 1 wrought, $9 to $10, No. 2 wrought, $3 to $5; machinery cast scrap, $14; stove plate, $10; malleable and steel, $5; old rubbers, 5c per lb.; country mixed rags, 65c per 100 lbs.

Coal—Hard coal continues in fair demand. New contracts are being booked for both hard and soft coal. Quotations are as follows: Anthracite in cars at bridges: Grate, $5.10 per gross ton; egg, stove and nut, $5.35 per gross ton; pea, $3 per gross ton.

Standard Hocking, soft coal, in cars, f.o.b. at mines: Lump, $1.35; ¾ inch, $1.25; run of mine, $1.05; nut, 90c; N. P. and S., 60c., coarse slack, 40c; box cars 10 cents per ton additional.

Youghiogheny soft coal in cars, bonded, at the bridges: 1¼ inch, $2.45; ¾ inch, $2.35; mine run, $2.25; slack, $1.90.

For Manitoba Metal Markets see page 42.

UNITED STATES METAL MARKET.

Advance proofs furnished HARDWARE AND METAL by The Iron Age, May 11, 1905.

THE returns of the producers of anthracite and coke pig iron to the Iron Age show that during April, a short month, the output was 1,922,041 gross tons, an increase over March, when the product was 1,936,264 tons in 31 days. An additional day in April would have carried the make to 1,986,000 tons. May promises to have an even higher record, since we entered the month with furnaces producing at the rate of 451,331 tons per week, as compared with 435,564 tons on April 1. This would indicate a May product of very close to 2,000,000 tons, exclusive of charcoal iron.

A study of the situation at the works proves that this is sure to be the maximum for some time to come, since few new furnaces are due in the next few months, and since many producers are running at a rate which they cannot hope to maintain. Thus, the United States Steel Corporation is operating 98 per cent. of its theoretical capacity.

The most significant feature of our furnace report is, however, the fact that for the first time since August last the stocks in the hands of merchant furnaces show an increase. The increase is small, being 17,000 tons, but it will be widely interpreted as an indication that the tide has turned.

The decision of the Steel Corporation not to buy any iron in the open market in May, the softening in prices in the south, to which district the accumulation of iron has been practically confined thus far, and the disappointment over the fact that the general foundry trade has not developed as expected some months since, are all factors in the situation.

It is interesting to note, as bearing on the attitude of pig iron makers, that a project is under consideration at Pittsburg, having for its object the control of the Bessemer and basic pig iron output of the merchant furnaces in the Mahoning and Shenango valleys. The scheme involves a central selling agency, an executive committee making all the sales of the Bessemer and basic grades. It is the aim to keep this iron out of the hands of brokers as much as

possible. As yet the plan is in its initial stages only.

Southern makers of pig iron openly acknowledge that the market has declined to the $13.25 basis, Birmingham, and there is evidence that $13 has been done.

In the central west the Cambria has purchased 40,000 tons of Bessemer pig and has taken one lot of 4,000 tons of low phosphorus pig. Other large transactions are pending.

Eastern cast iron pipe makers have taken about 12,000 tons, and there have been some further round sales of basic pig.

A moderate tonnage of structural material has been placed during the week, but there is some very big work ahead. Bids go in this week for a lot of about 21,000 tons here in New York. In Philadelphia a lot of 20,000 tons is on the eve of being closed, and in the distance looms up the 55,000 tons for the new Manhattan bridge.

The tone in the lighter lines is weaker, this including wire, sheets, tin plate and tubes. Whether plans now being considered to brace the markets will be effective remains to be seen.

Quite a considerable tonnage of sheet and tin plate bars has been sold lately for delivery abroad during the third quarter.

LONDON METAL MARKETS.

From Metal Market Report, May 10, 1905.

Pig Iron—Middlesboro No. 3 foundry is quoted at 54s. 6d, and Scotch warrants at 52s. 3d, making prices as compared with last week 1s. 7 1-2d higher for Middlesboro and 1s. 3d lower for Scotch warrants.

Tin—Spot tin opened steady at £136 10s., futures at £134 10s., and after sales of 110 tons of spot and 160 tons of futures closed firm at £136 12s. 6d for spot and £134 10s. for futures, making price as compared with last week £1 12s. 6d lower on spot and unchanged on futures.

Copper—Spot copper opened firm at £65 10s., futures £65 15s., and after sales of 200 tons of spot and 300 tons of futures closed firm at £65 15s. for spot and £65 18s. 9d for futures, making price as compared with last week 5s. higher on spot and 6s. 3d higher on futures.

Lead—The market closed at £12 16s. 3d, making price as compared with last week 5s. lower.

Spelter—The market closed at £23 10s., making price as compared with last week 2s. 6d higher.

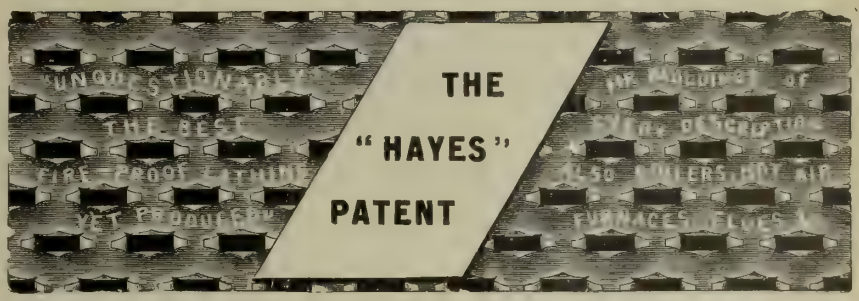
PITHY PARAGRAPHS.

With the opening up of the Spring building season there is a demand for carpenters' and builders' tools of all kinds. City hardware stores devote a good deal of window space to these.

* * *

The building season is the time to get in your furnace work. Go after every man that is building a house or a store and impress on him the advisability of letting you heat it. Go prepared to talk intelligently to him. Take catalogues and price lists and be able to tell just what kind of a furnace will give the best satisfaction in his building.

METAL LATH



Requires less mortar and 90 per cent. less labor than the inferior varieties that have been stretched until they have little strength left.

The "Hayes" is rigid. It makes a perfect job.

It costs less when applied and plastered than any other. We make it.

You can make money selling it.

THE METALLIC ROOFING CO., LIMITED
TORONTO

MINING NOTES.

Stories of fabulous finds of gold in the Temiscaming district of New Ontario are discredited by the Provincial Bureau of Mines.

* * *

A strong company has been formed to work the iron deposits at Black Island, Man. Active work commences next month.

* * *

The C.P.R. have received 7,000 tons of heavy steel rails from the "Soo." The rails will be used on the main line between Brandon and the coast.

* * *

C.P.R. and mining officials are considering the establishment of a smelter at Medicine Hat to use the great natural gas wells there for smelting low-grade ores.

* * *

Mackenzie & Mann are reported to have bought the Tin Top copper mine near Port Arthur. Over 20,000 tons of ore have been uncovered.

* * *

Experts at the Seal Harbor gold belt at Goldboro, Guysboro County, Nova Scotia, which was discovered last Fall estimate the value of the property at between forty and fifty million dollars. They say it is the richest find in Nova Scotia, if not on the continent of America. Leads show magnificent sights for every foot of them.

The property is owned by the Beaver Hat Gold Mining Co., of Glace Bay, Cape Breton, and one thousand dollars was refused on Saturday for one share.

* * *

The output of the Dominion Coal Co. for April was 221,541 tons, about 7,000 tons less than during the preceding month.

* * *

The Dominion Coal Co., Glace Bay, N.S., recently placed an order with Allis-Chalmers-Bullock, Limited, Montreal, for eleven new Ingersoll coal cutters. The company had already 175 of these machines in operation.

TRADE CONDITIONS IN NEW BRUNSWICK.

St. John, N.B., May 9, '05.

AT a meeting of the Hardware Association, held last week, a good deal of attention was given to the granting of Saturday half holidays during the months of July, August, and September. For several years past employes of the city hardware firms have been given the Saturday half holidgy during the months mentioned, but this year there has been some talk of doing away with these holidays. At the meeting referred to no definite action was decided upon by the members of the association. The general opinion, however, seemed to be that the holidays should be granted again this Summer.

* * *

In the death of Mr. Samuel Hayward, which took place here on Monday, St. John lost not only one of its leading hardware dealers, but one of the most prominent of its citizens. He was the head of the great wholesale house of the S. Hayward Co. He was born in Kings County, and was of Loyalist descent. When only sixteen years of age he began business on his own account at Sussex Corner, but ill health compelled him to give up and he went to the Pacific Coast, returning in 1879 to enter the firm of Warwick, Clark & Co., hardware dealers. Seven years later the business became S. Hayward & Co., which it remained until 1895, when a joint stock company was organized under the name of The S. Hayward Company, with Mr. Hayward as its president and chief shareholder.

* * *

The demand for builders' material has so far been very good this year. Those in a position to speak on the subject state that the season will prove to be a very good one. Several business changes and the erection of a number of dwelling houses make for this. As the season progresses the demand for cer-

(*Continued on page 44.*)

Stephens'
TRANSPARENT LIQUID WOOD FILLER

A perfect substitute for Shellac, as it not only fills the pores of the wood, but makes a surface equal to one coat of Hard Oil Finish. It is intended for Maple, Sycamore, B.C. Fir, Pine, Poplar, Whitewood, and other close-grained woods. This Filler is Transparent, it will not crack nor peel off, and does not require sandpapering. One coat of Filler and one coat of Extra Light Hard Oil are equal to ordinary three-coat work.

Put up in Gallon, Half-Gallon and Quart Cans only.

MANUFACTURED BY
G.F. STEPHENS & CO., Limited
PAINT AND COLOR MAKERS
WINNIPEG, - CANADA

HARDWARE CONDITIONS IN MANITOBA.

(Market quotations corrected by telegraph up till 12 a.m. Friday, May 12, 1905.)
Office of HARDWARE AND METAL
Room 511 Union Bank Building,
Winnipeg, Man.

ANNOUNCEMENT is made in the Manitoba Gazette of the incorporation of the James Stuart Electric Company, Limited. Winnipeg is to be the principal place of business of this company, and James Stuart and Robert Stuart, of this city, are at its head. The capital stock is $100,000.

* * *

April was a record month for immigration. Homestead entries at Regina total 1,111 and 177,000 acres were taken up. Entries in April of last year numbered only 573.

* * *

General business continues very active, and all the jobbing houses report a very busy season. Building supplies of all kinds are in strong demand, and it requires a great deal of "hustle" to keep up with the orders. Values throughout are steady this week.

* * *

Screen Wire Cloth—Sorting orders are commencing to be numerous. Price is $1.55 per 100 square feet.

Poultry Netting—There is a brisk demand for poultry netting. Prices continue as follows:

24-inch roll, per roll	$1 20
30 " "	1 50
36 " "	1 80
48 " "	2 40
60 " "	3 00
72 " "	3 60

Wire—Business is active and prices are steady. We again quote:

Barbed wire, 100 lb	$2 85
Plain galvanized, 6 to 8	3 39
" 9	2 50 2 90
Plain galvanized, 10	3 50
" 12	3 10
" 13	3 20
" 14	3 90
" 15	4 45
" 16	4 60
Plain twist	2 85
Staples	3 35
Oiled annealed wire, 10	2 96
" 11	3 02
" 12	3 10
" 13	3 20
" 14	3 30
" 15	3 45

Annealed wires (unoiled) 10c. less.

Horseshoes—Trade continues fairly brisk. Prices continue as follows:

Horseshoes, iron, No. 0 to No 1	$4 55
No. 2 and larger	4 30
Snow shoes, No. 0 to No. 1	4 80
No. 2 and larger	4 55
Steel, No. 0 to No. 1	4 65
No. 2 and larger	4 40

Horsenails—Discounts are as follows: "C" brand 40, 10 and 7 1-2 per cent., "M" brand and other brands 55 and 60 per cent. Add 15c. per box.

Wire Nails—Selling in large quantities. Price is steadier since the recent reduction. Base price is now $2.85 per keg.

Cut Nails—Base price $3.00 per keg.

Screws—Discounts are:

Screws, flat head, iron, bright	85 and 10 p.c.
Round " "	80 p.c.
Flat " brass	75 and 10 p.c.
Round " "	70 and 10 p.c.
Coach	70 p.c.

Nuts and Bolts—We quote following unchanged discounts:

Bolts, carriage, ¾ or smaller	60 and 5 p.c.
" 7-16 and up	55 p.c.
Bolts, machine, ¾ and under	55 and 5 p.c.
" 7-16 and over	55 p.c.
Bolts, tire	65 p.c.
Bolt ends	55 p.c.
Sleigh shoe bolts	65 and 10 p.c.
Machine screws	70 p.c.
Plough bolts	55 p.c.
Square nuts, case lots	3c. discount.
" " small lots	2½c. "
Hex " case lots	3c. "
" " smaller lots	2½c. "

Rivets — Discounts continue unchanged. We quote:

Rivets, iron	60 and 10 p.c.
Copper, No. 8	29½
" No. 12	33

Coil Chain—Prices continue as follows:

Coil chain, 3-16 inch	9.25
" ¼ inch	7.25
" 5-16 inch	5.20
" ⅜ inch	4.60
" 7-16 inch	4.45
" ½ inch	4.30
" ⅝ inch	4.10
" ¾ inch	4.00

Shovels—Discounts on spades and shovels continue 40 and 5 per cent.

Harvest Tools—Discount 60 per cent.

Axe Handles—No change in price. We quote again as follows:

Axe handles, turned, s.g. hickory, doz.	$3 15
No. 1	1 90
No. 2	1 60
Octagon extra	2 30
No. 1	1 60

Axes—We quote:

Axes, chopping	$6 75 to 12 00
" double bitts	12 00 to 18 00

Files—We again quote as follows:

"Arcade"	70 and 10 p.c.
"Black Diamond"	60 p.c.
"Nicholson's"	62½ p.c.

Building Paper—All grades are in brisk demand. Prices are steady at the recent reduction. We quote:

Anchor, plain	55c.
" tarred	70c.
Pure fibre, plain	60c.
" " tarred	80c.

Ammunition, Etc.—We again quote:

Ammunition, cartridges, Dominion R	50 and 5 p.c.
Dominion, C.F., pistol	30 p.c.
" military	15 p.c.
Ammunition, cartridges, American R.F.	33⅓ p.c.
C.F. pistol	5 p.c.
C.F. military	10 p.c. advance.
Loaded shells:	
Eley's and Kynoch's soft, 12 gauge black	15 00
chilled, 12 gauge	16 00
soft, 10 gauge	18 00
chilled, 10 gauge	19 00
Shot, Ordinary, per 100 lb	6 25
Chilled	6 75
Powder, F.F., keg, Hamilton	4 75
F.F.G., Dupont's	5 00

Tinware, Etc.—We quote again as follows:

Tinware, pressed, retinned	70 and 10 p.c.
" " plain	75 and 2½ p.c.
" pieced	30 p.c.
Japanned ware	37½ p.c.

Enamelled ware, white	45 p.c.
" Famous	50 p.c.
" Imperial	50 and 10 p.c.

Cordage—We quote:

Rope, sisal, 7-16 and larger, basis	11 25
Manila, 7-16 and larger, basis	15 25
Lathyarn	11 25

Solder—Quoted at 21 cents per lb.

Bluestone—Price is $5.75 per cwt.

Iron and Steel—Prices are steady. We quote:

Bar iron (basis)	2 50
Swedish iron (basis)	4 75
Sleigh shoe steel	2 65
Spring steel	3 00
Machinery steel	3 50
Tool steel, Black Diamond, 100 lb	9 50
Jessop	13 00

Black Sheets—No change in price. Quotations are:

Black sheets, 10 to 16 gauge, 100 lb	3 50
18 to 22 gauge	3 75
24 gauge	3 90
26 gauge	4 00
28 gauge	4 10

Galvanized Iron—In brisk demand at steady prices. We quote:

Apollo, 16 gauge	4 00
18 and 20 gauge	4 00
22 and 24 gauge	4 25
26 gauge	4 25
28 gauge	4 50
30 gauge or 10¾ oz	4 75
Queen's Head, 24 gauge	4 25
26 gauge	4 50
28 "	4 75

Tin Plates—We quote:

Tinplate, IC charcoal, 20 x 28, box	9 50
" IX "	11 50
" IXX "	13 50

Canada Plates—Business continues active. We quote:

Canada plate, 18 x 21, 18 x 24	3 25
Canada plate, 20 x 28	3 50
Canada plate, full polished	4 00

Sheet Zinc—The price of cask lots is $8.25 per 100 lbs.; price of broken lots is $8.75.

Pig Lead—$4.50 per 100 lbs.

Iron Pipe—We quote:

Black iron pipe, ⅛ inch	....
" ¼ "	2 45
" ⅜ "	2 65
" ½ "	3 00
" ¾ "	3 80
" 1 "	5 50
" 1¼ "	7 45
" 1½ "	8 95
" 2 "	12 30

Petroleum—No change in price. We quote:

Silver Star, per gal	20½c.
Sunlight "	21½c.
Eocene "	23½c.
Pennoline "	24½c.
Crystal Spray "	23½c.
Silver Light	21½c.

(In barrels f.o.b. Winnipeg.)

Paris Green—In seasonable demand. We quote:

English Paris Green—Petroleum barrels, 14 1-4c.; arsenic kegs, 14 1-2c.; 50 and 100-lb. drums, 15c.; 25-lb. drums, 15 1-2c.; 1-lb tins, 17c.; 1-2-lb. tins, 19c.; 1-lb. cardboard boxes, 16c.: 1-2-lb. ditto, 18c. Terms 2 per cent. off for cash in 30 days: 90 days net.

Canadian Paris Green—50-lb. drums 17c., bulk 18c.; in 1-lb. packages 20 cents.

Paints and Oils—There have been no further advances in linseed oil, but

PROMPT SHIPMENTS

Nicholson

Our Dominion Works are now producing 600 dozen Files and Rasps every working day.

We carry a large stock for you and are enabled to fill orders quickly. Manufactured in Canada.

FOR STORAGE IN WINNIPEG

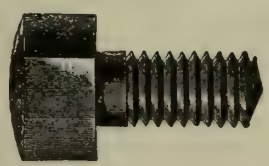
Handling and reshipping of goods. Brick warehouse with track facilities.

MACKENZIE BROS. WRITE 244 PRINCESS ST. OR P.O. BOX 579 WINNIPEG.

ORNAMENTAL GLASS

The time is past for the west to send east for anything in the Ornamental Glass Line. We do bevelling, silvering, chipping, sand-cutting, Lead and Copper Work, Memorial Window Work, etc. Workmanship surpassed by none. Staff increased double in past year. Prices right.

THE WINNIPEG PAINT AND GLASS CO., LIMITED
WINNIPEG, CANADA



THE JOHN MORROW MACHINE SCREW COMPANY, Limited

Manufacturers of

Set and Cap Screws, Special Milled Work, Engine Studs, Etc. Cold Punched Nuts of every variety of finish.

INGERSOLL, ONT.



STOVEPIPE

Scheip's Patent

Nested 25 lengths in crate

This is the only perfect working Knock-Down Pipe made. Will not telescope.

Manufactured only by

E. T. WRIGHT & CO., Hamilton, Ont.

THE TRIUMPH OF SKILL

—IN THE—

METALLIC ASH-SIFTER

You get what skill has produced at big cost, and what money can buy at small cost. It is lighter and more durable than wood, and the bottom wires are folded in by *Our Patent Double Lock Fold* which ensures permanency. See *Our Patent Wire Bail* for use with Sifter. *Write for Illustrated Circular and Price.*

C. M. CUTTS & CO., Sole Makers, Toronto Junction, Ont.

CONDENSED OR "WANT" ADVERTISEMENTS.

YEARLY CONTRACT RATES.

100 words each insertion,	1 year		$30 00
" " "	6 months		17 00
" " "	3 months		10 00
50 " "	1 year		17 00
" " "	6 months		10 00
25 " "	1 year		10 00

MANUFACTURERS' AGENT WANTED.

A BIRMINGHAM house, manufacturing electrical fittings and electroliers of low price grade, are seeking an agent to sell for them in Canada, Box 34, Hardware and Metal, Montreal, or Box A, Hardware and Metal, 88 Fleet St., London, Eng.

SITUATION WANTED.

BY a young man, with 14 months experience at tinsmithing, a position where he would get experience in roofing, eavetroughing, furnace work, etc.; can furnish good testimonials and references; no bad habits. GORDON B. PIERCE, Delta, Ontario. (19)

BUSINESS FOR SALE

HARDWARE store, tinware and furniture business, situated in live town of about 1,000 population in Western Ontario, stock $7,000 to $8,000 or could be reduced, no opposition, excellent farming community surrounding, good opportunity for live man. Box 245, HARDWARE AND METAL, Toronto. (20)

BUSINESS CHANCES.

THE LOCATORS—W. B. Herbert, Manager, 62 and 63 Merchants Bank Building Winnipeg, Man.

HARDWARE business for sale in a good town on the Prince Albert branch, net profit thirty-five hundred; seventeen hundred and fifty handles. Locators.

HARDWARE business for sale, turnover nine thousand, tin shop, warehouse, etc., implement business in connection, one thousand cash handles. Locators.

HARDWARE and implement business, established thirty-seven years, in large town in the Province of Manitoba, annual turnover thirty thousand, stock thirteen thousand, one-third cash handles. Locators, Winnipeg.

HARDWARE business for sale, annual turnover three thousand, good Manitoba town, stock first-class, three thousand, two thousand cash handles. Locators, Winnipeg.

IF you wish to buy or sell a business anywhere in Western Canada, it will pay you to communicate with us. We have some good legitimate propositions on our list; handle nothing else. Address The Business Brokers, 611 McIntyre Block, Winnipeg, Man. (tf)

FOR SALE

1 Pair of Scales (capacity 2,000 lbs.)

Apply Box 238

Hardware and Metal

10 FRONT STREET E., TORONTO.

prices are very firm. Turpentine is steady. Business is active in all lines of painting materials. We quote:

White lead (pure)	$5 00 to $5 50
Bladder putty, in bbls	0 02½
" " in kegs	0 02¾
Turpentine, pure in barrels	$ 0 84
Less than barrel lots	0 89
Linseed oil, raw	0 60
Boiled	0 63

Window Glass—Business is very active, and prices continue firm. We quote:

16-oz. O.G., single, in 50-ft. boxes—	
16 to 25 united inches	$225
26 to 40 "	2.50
16-oz. O.G., single, in 100-ft. cases—	
16 to 25 united inches	4.00
26 to 40 "	4.25
41 to 50 "	4.75
51 to 60 "	5.25
61 to 70 "	5.75
21-oz.C.S., double, in 100-ft. cases—	6.30
26 to 40 united inches	7.35
41 to 50 "	8.40
51 to 60 "	9.45
61 to 70 "	10.50
71 to 80 "	11.55
81 to 85 "	12.60
86 to 90 "	14.75
91 to 95 "	17.30
6 to 100 "	

TRADE CONDITIONS IN NEW BRUNSWICK.

(*Continued from page 41.*)

tain lines of materials will, of course, increase considerably. Roofing paper is now selling at approximately $1.15 per roll for three-ply, and ninety cents for two-ply. Tarred felt goes at $1.80 upwards per hundred pounds, and sheathing, tanned and dry, at 50 and 40c. respectively. The sale of cement is also good. The demand is brisk. Indeed it is probable that the demand is even more active than last year.

* * *

The city has recently undertaken a big contract to extend the water system to Loch Lomond. Both the firms which have been given the work of extension to do are composed of New Brunswick men. One of these is Messrs. B. Mooney & Sons, a local concern carrying on operations as builders, contractors, etc. The other is Messrs. McArthur & McVey. Of this firm the first named member is Mr. George McArthur, a St. John man. Mr. McVey belongs to St. Stephen. This extension means, of course, that local hardwaremen will be called upon to supply a goodly quantity of tools. The amount received from this source alone should form a noticeable part of the receipts of some, at least, of the hardwaremen during the next few months.

* * *

Hardware dealers who handle sporting goods here are of the opinion that the demand for them is increasing. The question of bicycle sales was touched upon in this column recently. The demand for baseball accessories is proving very good this year, but it is, indeed, unusually good here. Canoes are selling better than usual, and tennis outfits also show promise of being in strong demand. Other lines of goods are sought after in varying proportion.

* * *

Garden tools are excellent sellers at present, and the demand for them is increasing, as is to be expected. Something further may be said of this subject when the season has advanced.

TRADE CONDITIONS IN NOVA SCOTIA.

Halifax, May 9th, 1905.

THE wholesale and jobbing trade has only been of medium volume during the last week, but has extended over nearly all lines. Travelers report conditions in the country fairly good, and there is every prospect of a continuance of the same through the Summer. Early in the season there was some activity in mining supplies and machinery, but this has completely fallen off, and it is reported that there will be quite a shortage in mining operations this season, which will materially decrease trade. Dealers report payments considerably better than a few months ago.

* * *

Quite a demand has developed in the line of builders' materials, as with better conditions throughout the country generally more building operations are contemplated. Supplies of glass and cement are low, but further supplies are daily expected from the other side. Three-ply roofing is still quoted at $1.15 per roll; two-ply, 90c.; tarred felt, $1.85 per hundred pounds; tarred sheathing, 50c.; dry sheathing, 40c.; Prices of glass remain as previously quoted. The demand for cement has been particularly good, English being quoted at $2.25. Quotations for Belgian will not be fixed until it arrives by steamer, which sailed from Antwerp on April 17th. Dealers are practically handling only English glass this season on account of the labor troubles in Belgium.

* * *

There has lately been a good demand for lubricating oils. Prices are as follows: Capital cylinder, 60c.; engine oils, 30 to 40c., according to quality; mineral castor, 24c. Linseed oil is advancing in London, £20 per ton, or about ten per cent., but prices here are as yet unchanged at 45c. for raw and 50c. for boiled, in barrel lots. The quotation remains unchanged here, although there has been a decline of six xents at Savannah. The new crop is coming in, but will not be all in until after the first of June, when prices will be more settled.

* * *

Demand for supplies for fishing vessels continues fairly good, and besides our own fishermen a number of American fishermen are occasionally coming in for bait and also outfitting supplies. The lobster fishing supplies are also going out steadily, but that industry is not certain, and trade may slacken at any time.

* * *

Window displays, as attracting the eye with the probable result of bringing business, are now considered to be almost as valuable as the newspaper as a means of advertising. If this be so, Messrs. A. M. Bell & Co. made a hit in this line about Easter time. They are agents for an incubator, and to show its merits they placed one in one of their windows filled with eggs. A day or two before hatching was to commence the fact was announced. When the day came it was almost impossible, the whole day long, to get near the window to see the chickens "come out." One may be sure, also, that the firm took pains to have their other windows "trimmed" for business.



The 50-foot Awning we made for Ryrie Bros., Toronto

DO YOU NEED **AN AWNING** THIS YEAR?

FIRST-CLASS AWNINGS

—Poor Awnings are dear at any price. Therefore be careful.

—A good Awning is one in which the rollers are strong, straight and perfectly joined; the lowering and lifting contrivance, simple, powerful, easy and prompt in its action. The Awning stock we use is the best obtainable. We make only first-class Awnings.

—Quotations cheerfully furnished on jobs of all sizes.

WM. BARTLETT & SON

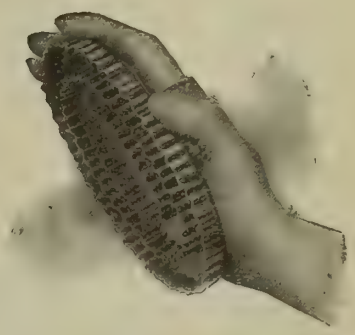
16 ADELAIDE STREET WEST, - TORONTO



The Eclipse Curry Comb

Manufactured from Three Solid Pieces of Sheet Tin, Lacquered and Baked.

Rivetted to Stay. Strong.
Well Finished. Rust Proof.
Easy to Use. Easy to Clean.
Combs Thoroughly, yet Smoothly.
The Trade Like it. The Dealers Like it.
The Users Like it. The Horses Like it.



The Eclipse Manufacturing Co., Limited, Ottawa, Canada

THE M.B. PUDDING STEAMER

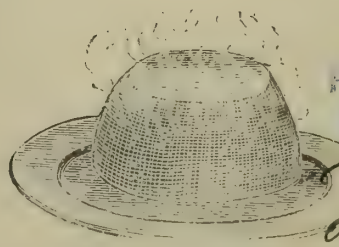
(MACFARLANE'S PATENT, No. 20339.)



WITH COVER COMPLETE.



REMOVING COVER.



A PERFECTLY COOKED PUDDING.

THE ONLY RATIONAL METHOD OF COOKING A PUDDING

SIMPLICITY, DURABILITY, UTILITY. NO BURNING, NO DISAPPOINTMENT.
EXCELLENT FOR FISH AND MEATS. PRODUCES PERFECT PUDDINGS.

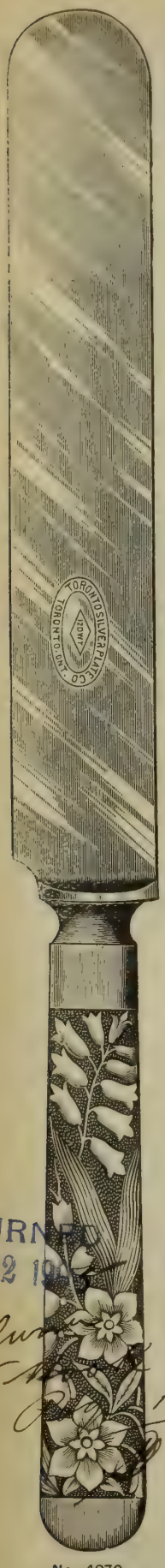
The **M. B.** Steamer consists of an enamelled bowl with retinned cover held by patent wire clasp. As its name implies it is a "Steamer," not a "Boiler." When it is used the Steamer should be put in a saucepan with a close-fitting cover. Do not cover the steamer with the water, all it wants is a little in the bottom of the saucepan to generate steam. The Bowl is made of Best Quality Enamelled Steel and is practically indestructible.

SIZE OF BOWL—No. 1, 5½; No. 2, 6½; No. 3, 7½; No. 4, 8 in. Diameter.

EACH SIZE PACKED IN CARDBOARD BOX Dainty Book of 22 Original and Economical Recipes Enclosed with Each Steamer

——TO BE OBTAINED FROM——

F. W. LAMPLOUGH & CO., 9 De Bresoles St., MONTREAL



No. 4070
Arabesque
Handle Knife
12 dwt. Quality

THE TORONTO SILVER PLATE CO., Limited

Manufacturers of

Sterling Silver and Electro Silver Plate of every description.

In buying Plated Flatware from your jobber, see that it is stamped with our name and trade marks, as stamped in this way the quality is fully guaranteed, and you can be sure of the price being right.

If you have not received a copy of our new Flatware Catalogue, ***write for it.***

Factories and Salesrooms:
West King St., Toronto, Canada

E. G. GOODERHAM, Managing Director.

TRADE CONDITIONS IN BRITISH COLUMBIA.

Vancouver, B.C., May 1, '05.

TO carry out in full the plans for operating the big Britannia mine on Howe Sound, which the Britannia Copper Syndicate are developing in a very extensive manner Mr. Geo. H. Robinson, one of the principal owners of the mine, has purchased the Crofton smelter, on Vancouver Island. The smelter was at first leased from the owners, or an arrangement made for handling the ore from Britannia, but Mr. Robinson concluded a deal this week whereby he becomes the owner. The mine is about ready to ship, as the aerial tramway for bringing the ore to tidewater is completed and the concentrator plant is also nearly ready for work. As soon as this mill is ready ore will be taken out, and from that time on a big force of men will be kept busy sending the rich copper ore from the big mine to the smelter.

* * *

The announced amalgamation of the three big properties in Rossland camp, Le Roi, War Eagle and Centre Star, together with the smaller mine, the Snowshoe, and the Trail smelter, has been delayed owing to the continued illness of Mr. T. G. Blackstock one of the principal owners of the War Eagle and Centre Star, and of Mr. G. S. Waterlow, the representative of the English capital owning Le Roi. It is, however, certain from all reports that the big merger will be carried out. The Trail smelter is at present the property of the Canadian Pacific Railway. The ores from Le Roi have been in large part smelted at the Northport smelter, just south of the international boundary, the smelter being owned by the Le Roi syndicate. The War Eagle and Centre Star properties have been shipping mostly to Trail smelter, and at Trail the Rossland Power Co., a subsidiary company to the War Eagle and Centre Star, has erected an enormous concentrating plant to treat the low grade ores before smelting. This plant, too, would be included in the merger. The three properties are easily the most important in Rossland camp.

* * *

Before the end of 1905 there is every likelihood that very great advancement in development of the rich Similkameen district will be recorded. There is absolutely no doubt that the Hill interests will push construction of the V. V. & E. Railway from Midway, the present terminus, at least as far as Princeton. At both places unused hotels have been leased by contractors who will use them for boarding and lodging their men while at work on the road. The application at Ottawa for amendments to the V. V. & E. charter is for the purpose of enabling the line to be built to the international boundary where a slight detour into American territory and then back into British Columbia will get round Sidley mountain without any heavy grades.

The opening of the Similkameen district has so long been hoped for by owners of property there, and by those interested in the advancement of the province as a whole, that it is hardly realizable now that it is within measurable distance. Rich in agricultural possibilities, and favored by nature with a splendid climate, the Similkameen district has its greatest future in its

Persons addressing advertisers will kindly mention having seen their advertisement in Hardware and Metal.

WORK AND PRICES RIGHT
GALVANIZING
ONT. WIND ENGINE & PUMP CO. LIMITED.
TORONTO, ONT.

Buy the Best.



HERCULES
Sash Cord.
Star Brand Cotton Rope
Star Brand Cotton Clothes Lines
Star Brand Cotton Twine
For Sale by all Wholesale Dealers.

"The Best South Wales Produces"

IN STEEL COKE TINPLATES
"ELYN"
"LYDBROOK"
"ARTO"
"FRONTIER"

IN CHARCOAL TINPLATES
"CYMMER"
"ALLAWAYS"
"JUANA"
"SPARTAN"

FRANKLIN SAUNDERS & CO.
Limited
MONTREAL
Wholesale Trade Only Supplied

wonderful copper and coal mines. The whole district is heavily mineralized, and some of the properties have been well developed. Notably is the Nickel Plate at Hedley City, owned by the Daly Syndicate of Montana, who have erected large reduction works for treating the ore. This mine will be a shipper the moment a railway is into the district.

* * *

The shingle trade of the province is in better organization this year than ever before. Two companies, the Export Lumber & Shingle Co., and the Union Lumber Co., have secured contracts for fully 90 per cent. of the output of all the shingle mills in British Columbia, and the mills are thus in a position to feel assured that prices will be maintained. Dealers in the east are holding off till the very latest moment with orders, following their long established custom of waiting for a break in prices. But the millmen declare there will be no price cutting on British Columbia shingles this year.

* * *

New Westminster is becoming a seaport. Steamer Amur, of the C.P.R. fleet, this week took on at that city a cargo of 350 tons of steel rails for the Klondike Mines Railway Co., which is constructing a line from Dawson to connect with the principal creeks of the district. The rails came overland from the eastern states.

* * *

Mr. Julius Peters, of the Record Foundry & Machine Co., of Moncton, N.B., has been in Vancouver for the past week or so looking to establishing a branch of this successful concern in this city, with the object of turning out stoves and other articles which they manufacture in the east. Representations have been made to the city council seeking for some concessions as inducement for the location of the proposed shops here, as other coast cities rival Vancouver in seeking to have the new shops. The matter is to be discussed at a meeting of the finance committee of the city council, and there is possibility of some concession, such as an exemption from taxation for a term of years, free water, or other such inducement, within the control of council. It is unlikely, however, that a cash bonus would be granted in any case. The preliminary steps have been taken to purchase the Vancouver Stove Works, a small institution already established here. Victoria City and New Westminster each have inducements favorable to the proposed works, there being at the former city a foundry plant which could be purchased reasonably, the Albion Iron Works foundry, where stoves were at one time made.

* * *

Building activity in Vancouver is unprecedentedly great, despite the fact that for years there has been almost abnormal growth. There is not the least indication yet of anything but the ordinary healthy expansion which goes with the rapid increase of the volume of trade in the city. Business blocks of larger size and more substantial character are being put up this year in greater numbers than for several years. Aside from two or three large public buildings, the structures last year were nearly all residential, with a few small blocks. Previous years marked the erection of some good blocks, and again this season the larger class of business building is more in evidence.

Why don't you try



Galvanized Sheets

Once bought, always bought by those who know value for money

MAKERS J. SUMMERS & SONS, Limited.
AGENT F. HANKIN, Montreal.

COIL CHAIN

Traces and Cow Ties

LOWEST PRICES FOR IMPORT

J. A. HENDERSON, Board of Trade Bldg., MONTREAL
Agent for T. W. & J. WALKER, Wolverhampton

H. & R. SINGLE GUN AUTOMATIC AND NON-EJECTING

12, 16 and 20 Gauge
Steel and Twist Barrels

Superior in Design, Workmanship and Finish, and the most popular Gun on the Market.

Simplest "Take Down" Gun Made



HARRINGTON & RICHARDSON ARMS CO.
Also makers of H. & R. Revolvers.
Catalog on request. Worcester, Mass., U.S.A.



MANY WOMEN

are ready to buy a mop—a good mop, one that will really do fine work; a mop that does not require hands to be wetted; that allows a woman to wear a presentable skirt.

The Tarbox Self-Wringing Mop

is the kind women want, and will buy if you point out to her its advantages.

These mops are much more profitable than the poorer kind. Retail for 35 cents.

Not dear, are they?
Your Jobber Supplies them.

TARBOX BROS., Toronto

IRONSIDE FOR IRON

OUR SPECIALTIES ARE BRITISH AND FOREIGN IRON, STEEL, METALS, BARS, PLATES, SHEETS, BOLTS and NUTS, TIN PLATES, Etc.

Sole Licensees for PAGE'S PATENT WIRE STRETCHER, and we are willing to sell the right of manufacture in Canada on a Royalty basis.

IRONSIDE'S PATENT WIRE CUTTERS, guaranteed to cut any wire

We publish a "Canadian Metal Price List" monthly. Quotations in Dollars and Cents. (C.I.F.) We will send this, and our "Weekly Market Report" on receipt of address.

IRONSIDE, SON & CO., 16 Water Lane Gt. Tower St., E.C LONDON, ENG

PAINT, OIL AND BRUSH TRADES

Western Canada's Oil Fields.

THE oil fields of Southeastern Kootenay continue to attract attention along with the fields adjacent to them in Southwestern Alberta. The difficulty in Kootenay is that there is no road, not even a wagon trail, to give access. It would be necessary to build about 30 miles of road, and parties representing holders of areas of these lands are urging the claims and possibilities of the district on the British Columbia Government to have this 30 miles of road built from the Crow's Nest Pass Railway south. The large amount paid in in fees for registration of claims, and other revenue, is pointed out as a reason why some recognition should be given the district. It is further asserted that enormous and almost startling results would follow opening of transportation facilities, as many syndicates are preparing to go to work as soon as they can transport plant into the field.

The results being obtained just across the provincial boundary in Alberta are sure to be equaled, so the statement is made by those interested. Not more than two or three miles across the boundary in Alberta, the Rocky Mountain Oil Co. has a refinery under erection now, and already has in place a still of 40-barrel-per-day capacity. The high grade qualities of the crude oil make the process of refining very simple and cheaply done, the various oils being immediately fit for use after distilling.

A Non-Corrosion Paint.

George W. Gesner, of New York. has patented a paint composed of a liquid vehicle with a drier, and an alloy of hydrogen and iron in a pulverized state, the hydrogen being in such proportions as to prevent oxidation or corrosion in said alloy.

Good Demand for American Window Glass.

Mr. Gerald Lomer, representing the American Window Glass Co., of Montreal, states that there is a good demand at present for American window glass. A considerable number of Canadian retail hardware merchants, he claims, have become anxious regarding the arrival of the Summer supply of glass, and seeing no end in sight to the present troubles in Belgium have placed their orders in different hands. Mr. Lomer thinks that as long as the present labor trouble continues to exist in Belgium, American window glass will have a good sale in Canada.

An Architectural Freak.

One of the queerest dwellings in the world is to be found at Tonopah, Nevada. The walls are made of empty glass bottles laid in mud. The bottles are placed in rows, the bottoms outward, and as one approaches the house the walls suggest a great mass of honeycomb or a section of cement sidewalk turned on edge. This architectural freak was erected by a miner, who used bottles because other material was scarce.

Brushes Lighten Housework.

The many different kinds of brushes which are now obtainable for all sorts of home uses are the means of relieving housework of much of its drudgery. It is decidedly easier to clean greasy pans and kettles and dishes with a good brush than it is to scrape them with a knife, or attempt to scour them with a cloth. Hardwood floors look their best when cleaned and polished with the proper brush. China, silver, in fact anything that must be cleaned, is quickest and easiest done with the right brush.

One reason why brushes are coming into favor generally is that they enable the woman who does her own work to keep her hands out of the water. A woman can easily do her own cooking, and keep her hands well groomed, if she adopts the modern way of using the proper brush for the different kinds of housework.

A New Industry.

Pure Color Co., Limited, have now finished a most complete and up-to-date factory in Hamilton for the manufacture of dry colors and pigments. They manufacture a line of oxides, browns, reds and chocolates, including "Seal Brand Mortar Stain," under patent process.







If You Buy

Varnishes Paints
Japans Colors
Lacquers Glues
Stains Bronzes
Fillers Chamois
Sponges

WRITE TO

R. C. JAMIESON & CO.
LIMITED

MONTREAL

AGENTS FOR ASPINALL'S ENAMEL



Look at it

Pull it apart, test it by use—find out for yourself the quality of

Skedden's Brushes

We make these brushes, we know them from end to end. We make them so good that no brushes are better. Our customers find this out. And your customers will also.

A good brush pays.

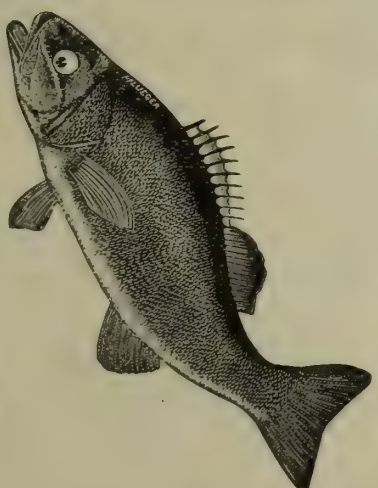
Have You our Catalogue?

The Skedden Brush Co., Limited, Hamilton

Toronto Office—176 Victoria St. 'Phone Main 3358. O. VICKERY, Agent.

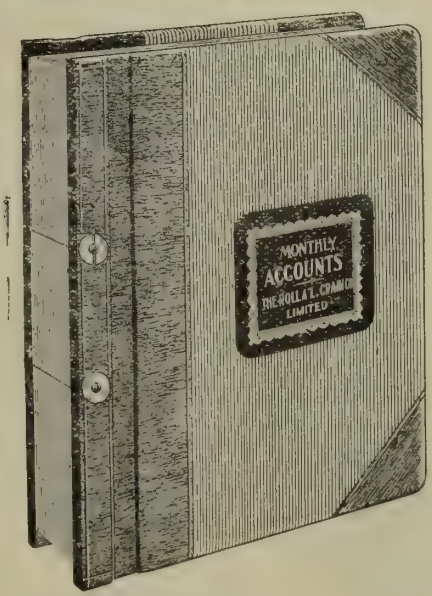
PFLUEGER'S Fishing Tackle

Hooks, Flies, Trolls, Spinners, Phantoms, Reels, Furnished Lines. Everything in Fishing Tackle.



NOTICE--Free to Any Dealer in Sporting Goods, Sent Express Prepaid, 155-Page Illustrated Catalogue No. F23, Metal Fish Sign and Window Transparency in 8-Color Lithograph.

The Enterprise Mfg. Co.
AKRON, Ohio



MONTHLY ACCOUNT SYSTEM

for the Retail Trade

It saves Time.
It saves Money.
Accounts are Always Ready.

We manufacture many systems for all kinds of business, but this has been proven the best and most accurate means for the retail trade.

Our Stock Ledger is cheaper and better than the old style bound books. Write for information.

The Rolla L. Crain Co., Limited
Head Office and Factory—Ottawa, Ont.
Toronto Office—18 Toronto Street
Montreal Office—74 Alliance Building

"This is the Time Paint Flies!"



TRADE MARK

Be prepared for the demand and order at once the

OLD RELIABLE

"ANCHOR LIQUID HOUSE PAINTS"

They are the outcome of **30 years** manufacturing experience, and also the only **Liquid Paints** made with the **FAMOUS BRANDRAM'S B.B. GENUINE WHITE LEAD,** the **World's Standard** for the last **187 Years.** They have stood the test! A good example of the SURVIVAL OF THE FITTEST!



Manufactured by

HENDERSON & POTTS, Limited

HALIFAX and ST. JOHN

HENDERSON & POTTS CO., LIMITED

MONTREAL and WINNIPEG

Paint and Oil Markets

Quebec.

Office of HARDWARE AND METAL,
232 McGill street,
Montreal, May 12, 1905.

BUSINESS continues to be very active. Mixed paints are moving freely, and taking everything into consideration, manufacturers seem to be satisfied with the amount of business transacted this Spring. During the past week turpentine has declined 2c. per gallon, and the conditions in the south have again become firm, and these prices are liable to advance at any time. The latest advices received from the manufacturing point state that the crop this year is smaller than last year. Under these circumstances the prices are anticipated to remain firm all the coming Summer. In fact it is expected that no low-priced turpentine will put in an appearance on the market this year. Locally, linseed oil is steady but on the English market the prices are fluctuating, and at present no definite idea regarding the state of conditions can be obtained. It is expected, however, that prices will continue firm with a possible slight advance. Orders for red lead and litharge have eased off, and it is supposed that purchasers have withdrawn from the market until after the first arrivals by steamer, when it is expected that lower prices will reign. White lead has a good demand, and prices continue to be firm.

Canadian Paris Green—Prices continue unchanged. Our quotations are as follows: Barrels, 15 1-4c.; arsenic kegs, 15c.; 50 and 100 lb. drums, 16c.; 25 lb. drums, 16 1-2c.; one pound packages, 17c.; half-pound packages, 19c.; one pound tins, 18c. Terms 2 per cent. discount for cash in 30 days or 90 days net.

English Paris Green—Pure English Paris green, petroleum barrels, 15 1-4c.; arsenic kegs, 15 1-2c.; 50 and 100 lb. drums, 16c.; 25 lb. drums, 16 1-2c.; one pound paper boxes, 17c.; one pound tins, 18c.; one-half pound paper boxes, 19c.; one-half pound tins, 20c. Terms, 2 per cent. off thirty days, or ninety days net from date of shipment.

Turpentine—Single barrels, 85c. per gallon; two to four barrels, 84c. per gallon; for smaller quantities than barrels, 5c. extra per barrel is charged. Standard gallon is 8.40 lbs. fo.b. point of shipment, net 30 days.

Linseed Oil—Raw, one to four barrels, 50c.; five to nine barrels, 49c.; boiled, one to four barrels, 53c.; five to nine barrels, 52c. f.o.b. Montreal. Net 30 days.

Ground White Lead — Best brands Government standards, $4.70 to $4.85; No. 1, $4.45 to $4.60; No. 2, $4.20 to $4.35; No. 3, $3.87 1-2 to $3.97 1-2; No. 4, $3.50 to $3.60, all f.o.b. Montreal.

Dry White Zinc—Pure dry in casks, 7c.; in 100 lb. kegs, 7 1-2c.; No. 1 zinc, in casks, 6c.; in 100 lb kegs, 6 1-2c.

White Zinc (ground in oil)—Pure, 25 lb. iron, 7 1-2 to 10c.; No. 1, 6 1-4c.; No. 2, 5 1-4c.

Putty—Pure linseed oil 175 to 185. Bulk in barrels, $1.50; in 25 lb. irons, $1.80; in tins, $1.90; bladdered putty in barrels, $1.75.

Orange Mineral—Casks, 7 1-4c.; 100 lb. kegs, 7 1-2c.; smaller quantities, 8 1-2c.

Red Lead—Genuine red lead in casks, $4.50 in 100 lb. kegs, $4.75; in less quantities at the rate of $5.75 per 100 lbs.; No. 1 red lead, casks, $4.25; kegs, $4.75, and smaller quantities, $5.50.

Shellac Varnish—Pure white, $2.60 to $2.80; pure orange, $2.55 to $2.65; No. 1 orange, $2.30 to $2.45.

Mixed Paints—$1.20 to $1.40 per gallon.

Castor Oil—8 3-4c. to 9 1-4c. in wholesale lots, and 1-2c. additional for small lots.

Litharge—Ground, in casks, 5c.; in less quantities, 5 3-4c.; flake litharge, casks, $5.50; smaller quantities, $6 per 100 lbs.

Refined Petroleum—No change has occurred on this market. Prices continue unchanged. We quote as follows: American prime white 14 1-2c., American water white 16c.

Ontario.

Office of HARDWARE AND METAL,
10 Front Street East.
Toronto, May 12, 1905.

LINSEED oil holds firm in price, there being a scarcity of stock on the local market. Large shipments are expected from England in a few days, however, when orders now being held will receive attention. Turpentine is also unchanged in price, holding firm at the prices quoted a week ago. The production this year is only about two-thirds of the usual output, and as dealers in all parts of the country have been holding off for better prices their stocks are low, and the heavy buying certain to ensue leaves little prospect for any great fall in prices. From this standpoint the future looks quite roseate for the sellers.

Trade was never better in oil and paint materials than it is at present, and everything points to a record year. The demand is divided between dry colors and mixed paints, with the latter more than holding their own. No changes in prices are recorded.

White Lead—Ex-Toronto, pure white lead, $4.75; No. 1, $4.37 1-2; No. 2 $4; No. 3, $3.62 1-2; No. 4, $3.35 in packages of 25 lbs and upwards; 1-2c. per lb. extra will be charged for 12 1-2 lb packages; genuine dry white lead, in casks, $4.25.

Red Lead—Genuine in casks of 560

THE TWO REASONS

1

why you should buy our

TRANSPARENT LACQUERS

2

are that they are made from the best material obtainable and made by the most skilled workmen. *Transparent Air-Drying Lacquers. Transparent Baking Lacquers.* All colors. All quantities. —— PRICES ON APPLICATION.

THE STANDARD PAINT & VARNISH CO., LIMITED, Windsor, Ont.

"The Tool Holder People"

Armstrong Bros. Tool Company

Manufacturers of Armstrong Patent Lathe and Plane Tools and other machine shop specialties.

617-621 Austin Ave., CHICAGO, ILL.

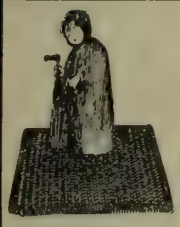
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OIL AND COLOURMAN'S JOURNAL

for news of the Oil, Paint, Soap, Varnish Chemical and Drysaltery Trades.

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Sample for 10 cents.

SCOTT, GREENWOOD & CO.
19 LUDGATE HILL - LONDON, ENG.



A Popular, Profitable and Seasonable Line to Handle.

Dennis' Flexible Steel Wire Door Mats

DENNIS WIRE AND IRON CO.

Send for Catalogue. LONDON, ONT



A Good Line

Beaver Post-Hole Digger

Will please your customer. A pleased customer is an asset to any business.

No wood to rot, check or break. Special discounts to the trade.

Canada Foundry Company, Limited

HEAD OFFICE AND WORKS: TORONTO, ONT.

District Offices: Montreal, Halifax, Ottawa, Winnipeg, Calgary, Vancouver, Rossland.

Clauss Dressmakers' Shears



Clauss Brand—Fully Warranted

This shear is made after the pattern *"Tailors' Shears,"* and is just the thing long wanted by the dressmakers.

Manufactured by our secret process. Ask for discounts.

THE CLAUSS SHEAR CO., Fremont, Ohio.



QUESTION?

Why not stock your shelves with a brand of paint that is bound to satisfy your customers and thereby increase your sales?

—— REMEMBER ——

that this paint when used on **FLOORS** and **HOUSES** is guaranteed to dry in

EIGHT HOURS

P. D. DODS & Co., Montreal, Vancouver, Toronto and Winnipeg

"PAINT PRATTLE"

The Old Method

"In the good old days" the individual painter bought his pigments in the Dry Form and compounded and mixed them literally by the "sweat of his brow." The apprentice was the chief motive power. Sometimes the product was good; oft-times as thick as a pudding; occasionally gritty, and rarely correct in shade when a second batch was prepared. The Rule of Thumb largely prevailed. In all civilized countries this antiquated method has been discarded.

The C. P. Co.

In Canada, one of the leading pioneers to develop the handy, always ready, mixed paint trade is the firm widely known as **THE CANADA PAINT COMPANY, Limited, of MONTREAL & TORONTO,** familiar to all lovers of a pot of good paint as the **C. P. Co.** This Canadian corporation own their mines and extensive works, do their own color and varnish making and printing, being easily the largest manufacturers of Painting Material in the Dominion of Canada.

The New Method

Machinery with The Canada Paint Company has supplanted all hand power. Powerful turbines turn the wheels of ponderous machinery which, in turn, impart power to accurate automatic mixing machines. Gigantic "Egg Beaters," as it were, dozens in a row, line up and occupy a large floor space, each "Beater" or "Mixer" churning up 200 gallons of paint in short order. The pigment is carefully weighed, as also is the coloring paint, and each lot or turnout is the identical shade of the previous batch and good, clean, even, soft paint is the result.

lbs., $4.50; ditto, in kegs of 100 lbs., $4.75; No. 1, in casks of 500 lbs., $4 to $4.25; ditto in kegs of 100 lbs., $4.50.

White Zinc—Genuine French V. M., in casks, $6.50 to $7; Lehigh, in casks, $6 to $6.50.

Shingle Stain—In 5 gallon lots 75 to 90c. per gallon.

Paris White—90c. to $1 per 100 lbs.

Whiting—60 to 65c. per 100 lbs; Gilders' whiting, 75c.

Shellac—Pure orange in barrels, $2.75 to $3; white, $2.85 to $3.10 per barrel; No. 1 (orange), $2.25.

Linseed Oil—Our quotations are: Raw, 1 to 4 barrels, 54c.; boiled, 57c.; 5 to 9 bbls., raw, 53c.; boiled, 59c.; Toronto, 1 to 4 barrels, 52c.; boiled, 55c.; no concessions for larger quantities, Toronto, Hamilton, London, and Guelph, net 30 days. Advance of 2c. for delivery to outside points.

Turpentine—Single barrels, 87c.; 2 to 4 barrels, 86c.; 5 barrels and over, 85c., f.o.b. point of shipment, net 30 days. For less quantities than barrels, 5c. per gallon extra will be added, and for 5 gallon packages, 50c., and 10 gallon packages 80c. will be charged.

Paris Green—600 lb. barrels, 13 1-4c.; 250 lb kegs 13 1-2c.; 50 lb drums, 14 1-2c.; 1 lb. packets, 15c.

Glues—Broken sheet, in 200 lb. barrels, 5 to 25c. per lb.; cabinet glue, in barrels, 11 1-2 to 12c.; emery glue, in barrels, 15c.; bookbinders' ground, 11 1-2c.; finest American white, 19c.; No. 1 American white, 15c. per lb.

Putty—Ordinary, bladders in barrels, $1.65 to $1.75; pure linseed oil, $2 to $2.10; bulk in barrels, $1.50; pure, $1.95 to $2; 100 lb. kegs 25c. extra.

Plaster Paris—New Brunswick, $2 per barrel.

Liquid Paints—Pure, $1.20 to $1.35 per gallon; No. 1, $1.10 per gallon.

Barn Paints—70c. to 80c.

Bridge Paints—75c. to $1.

Castor Oil—English, in cases, 8 1-2 to 9c. per lb., and 10c. for single tins.

Refined Petroleum — Opening of navigation has brought an increase in business. We quote: Water white, 16c; Canadian prime white, 14½c.; American water white, 16½c. to 18½c. ex warehouse.

Crude Petroleum—A further drop is noted. We quote: Pennsylvania, $1.29; Ohio, 84c.; Somerset, 81c.; Indiana, 88c.; Canadian, $1.27.

Glass—See current quotations at the end of this issue.

Window Glass.

MONTREAL.

Labor troubles in Belgium have not as yet been settled, and, at present, indications point to a lengthy continuation of the present misunderstanding. The first foreign glass to put in an appearance this Spring arrived during the past week by steamer. The amount, however, when distributed among a number of dealers, does not materially strengthen the situation. The small number of tanks which at present are in operation are expected to be kept actively engaged, as the demand from all quarters of the globe is expected to be heavy. The heavy drain on these few tanks will therefore only permit a slow and limited arrival of glass during the coming Summer. Considerable English glass is being purchased, but the limited output at the tanks curtails to a certain extent the amount of sales in this country. Prices are firm, but as yet no advance has taken place. We quote the following: First break, 50 feet, $2.00; second break, $2.10; first break, 100 feet, $3.75; second break, 100 feet, $3.95; third break, 100 feet, $4.50; fourth break, 100 feet, $4.75; fifth break, 100 feet, $5; sixth break, 100 feet, $5.50; seventh break, 100 feet, $6.00; and eighth break, 100 feet, $6.50. Diamond star, first break, 50 feet, $2.30; second break, 50 feet, $2.50; first break, 100 feet. $4.40: second do., $4.80; third do., $5.75; fourth do., $6.50; fifth do., $7.50; sixth do., $8, and seventh do., 9. Double thick, first break, 50 feet, $3.45; second do., $3.75; first break, 100 feet, $6.75; second do., $7.25; third do., $8.75; fourth do., $10; fifth do., $11.50; sixth do., $12.50; seventh do., $14; eighth do., $16.50; ninth do., $18; tenth do., $20; eleventh do., $24, and twelfth do., $28.50.

TO HARDWARE DEALERS.

As the farmer is the sinew of the country in agriculture, so the merchant and dealer are the sinews of trade and commerce, hence the necessity of a full knowledge of the industries and products of the country in compact form for the merchants' and dealers' information and guidance.

There is a spirit of loyalty permeating the pulse of trade in all countries, and when the essential information on the products of a country is at hand, that loyalty should assert itself for the benefit of home trade and the growth of the country.

The Manufacturers List Co., Montreal, issue the following publications:

The Canadian Industrial Blue Book, Buyers' Guide of Canada, 1904-7, 576 pages, cloth bound. Price, $5.00.

A Classified Article List of Industrial Products for Canadian Buyers, 1905-6, 400 pages, cloth bound. Price, $2.00. Both books to one address, $5.

The work is under the patronage of the Dominion Government and a large number of our leading manufacturers, and is solely on its merits for the general good of all.—(Adv't. tf.)

There should be an excellent demand for locks of all kinds the coming Summer. The building operations that are promised in all parts of the country will call for a lot of them. Manufacturers say that the outlook is good. While the demand is not heavy, yet they expect it to open up in a lively manner before long and continue active all through the Summer.

* * *

Time to get the tent catalogues on the counter. The first warm weather starts the talk of camping and fishing, and that means tents. And there are camp stoves, camp outfits, etc., too. All of these are lines every hardwareman should handle.

PERSONAL AND TRADE NOTES.

Mr. H. J. Fuller, of the Canadian Fairbanks Co., Montreal, visited Toronto this week.

Harrison & Robertson, plumbers, are improving their store front on Spadina avenue, Toronto.

Charles E. Neads, formerly manager of the Rat Portage Hardware Co., and more recently of Wawanesa, Man., died about a fortnight ago.

Mr. F. B. Leslie, of A. C. Leslie & Co., of Montreal, has left for Winnipeg, where he will assist Mr. E. H. Bissett, the agent in that city.

Mr. J. Busseau, hardware merchant, residing at 888 St. Hubert street, Montreal, has removed to Sault au Recollet, a village some nine miles north of Montreal.

Mr. John Forman, dealer in electrical supplies, at No. 708 Craig street, Montreal, has left on a business trip to New York. Mr. Forman will be absent for some few days.

Mr. Gordon Seybold, of Seybold & Sons Co., wholesale hardware merchants, of Montreal, is making a business trip to Ottawa and district surrounding that city.

Mr. T. A. McAvity, manager of the Canadian Buffalo Forge Co., of Montreal, has left on a business trip to the head office of the company which is situated in Buffalo.

O. Schultz has built a commodious workshop and storeroom for tinware in the rear of his business premises at Gretna, Man. J. Moetter, formerly of London, Ont., is in charge.

Joseph McCausland, one of Toronto's oldest business men, and prominent in the paint aad glass trade as head of the firm of Joseph McCausland & Son, Limited, died a few days ago aged 70 years.

Mr. George Jordan, manager of the heavy goods warehouse of the wholesale hardware firm of Caverhill, Learmont & Co., of Montreal, was, on May 10, united in the bonds of matrimony to Miss Dixon, of Westmount. The couple left on an extended trip to New York and Atlantic City.

Mr. David Millar, manager of the Gurney Oxford Stove and Furnace Co., Toronto, on Saturday last was presented with a handsome silk umbrella from the employes. Mr. Millar has sold out his interest in the above company to become president and general manager of the Pease Heating Co., Limited.

The Pedlar People, of Oshawa, Ont., have opened new branches at Toronto and Ottawa. They have secured an excellent location for their Toronto branch in the wholesale district at 50 Yonge street. The address of their Ottawa branch is 423 Sussex street. They will be pleased to have any of the trade visiting either of these cities call on them at the above addresses.

Among the "want ads." in this week's issue of Hardware and Metal will be found a hardware, stove, tinware and furniture business for sale. We are very well acquainted with the proprietor of the business and can say that few businesses have been carried on as progressively as the one referred to. The proprietor has ever been on the alert to take up new lines which would add to his profit and the business is in excellent repute among the farmers. We will be glad to give full information to anyone interested in the purchase of this business.

McCaskill, Dougall & Co.

Manufacturers

RAILWAY, CARRIAGE AND BOAT **VARNISHES.**
HIGH-GRADE FURNITURE and HOUSE VARNISHES

MONTREAL.

ABOUT GLUES

What kinds do you handle? Are you and your customers satisfied? Perhaps we can give you a better article at a fairer figure. Our SCOTCH GLUES will be found of exceptional strength, and equal to many glues for which much higher prices are charged. Let us send samples.

GROVE CHEMICAL CO. Ltd, Appley Bridge, Lancashire, Eng.

ASK YOUR JOBBER FOR

GILBERTSON'S

COMET

Brand Galvanized Sheets

Will *double seam* either way of grain. High grade and low price. Every sheet guaranteed.

Makers: W. GILBERTSON & CO., Limited
Pontardawe, South Wales.

OUR AGENTS

MESSRS. WAYLAND, WILLIAMS & DADSON

28 BOARD OF TRADE BUILDINGS, MONTREAL

are carrying a stock of our goods and will be pleased to have your inquiries for **Hex.** and **Square Cap Screws, Square Head Set Screws, Bright Washers,** and **Bright** and **finished Hex. Nuts.** The quality is right, and we can give you good deliveries.

ACME LATHE & PRODUCTS CO., LTD.

MANCHESTER.

THE LEADERS



STYLE "A"



STYLE "E"

Style "A" with Double Reversible Steel Bow Lever, Patented Cream Breakers.

Style "E" with Hand and Foot combination drive and spring attachment, producing an easy and elastic motion.

The Pittman is quickly detachable from churn.

Both styles are fitted with our improved Steel Ball Bearings and mounted on Rigid Angle Steel Stands.

THE DOWSWELL MANUFACTURING CO., LIMITED
HAMILTON, ONT.

STOVES AND TINWARE.

Steam Cookers.

AN article of considerable merit, advertised on another page and which is being introduced in Canada this Spring, is the "Ideal Steam Cooker," made by the Toledo Cooker Co., of Toledo, Ohio. It is very substantially made and has won quite a reputation for itself throughout the United States and it is well advertised in a large number of the leading periodicals. One large customer already secured in Canada is the Hudson Bay Co., of Winnipeg. Another wholesale firm, Coltart & Cameron Co., Limited, of Winnipeg, have also placed a large order with J. A. Ross, of Winnipeg, the sole Canadian representative of the company. Over 2,000 of the cookers have been sold in Winnipeg by the hardware trade, and in other parts of the country where the article has been introduced the trade are taking hold rapidly.



Ideal Square Steam Cooker.

The method of introducing the cooker adopted by the company to create a demand for the same is the holding of demonstrations in the principal towns and cities. A three days' demonstration was recently held in St. Catharines and as a result the Martin Electric Supply and Construction Co., Limited, of St. Catharines, have placed an order for 500 of the cookers to supply the demand in the Niagara Peninsula alone.

The cookers are made of a fine grade of one and two cross charcoal tinplate with drawn seamless copper bottoms. They have removable divisions so that a dozen different kinds of food may be cooked at the same time and over one burner of any kind of stove. Or the partitions can all be removed and used as one large vessel for cooking larger articles.

Hardware merchants desirous of securing further information should write for prices, etc., to the Martin Electric Supply and Construction Co., of St. Catharines, who are at present handling all orders from the trade in Ontario, J. A. Ross, 141 Bannatyne avenue, Winnipeg, or any of the hardware jobbers in Canada.

"Sixty" Series Coal Heaters.

Dealers who are interested in economical and satisfactory coal burning heaters which can be sold at a moderate price and yet yield a good margin of profit should note the advertisement of Telephone City Stoves, Limited, Brantford, Ont., which appears in this issue. This firm are wide awake and are building up a good trade by the excellence of their output.

Deterioration in Grates.

The principal cause which contributes to the rapid burning out of the grate bars in a boiler is the action of the furnace heat, which will in time destroy any set of grates, but the want of a proper flow of air through the grates will cause overheating whether it occurs through too little air-space in the grates themselves, or by these spaces becoming obstructed through any cause, thus preventing the cooling effect of the air on its passage to the fire. Another reason is found in the impurities of the coal, and especially in the chemical combinations of sulphur and iron, which impurities are found in more or less quantity in all coals. The Practical Engineer says any coal which forms an easily fused clinker will injuriously affect the grates.

A New Fuel.

"Radiant" is the name given to a new fuel, invented by two young English engineers, which is expected to accomplish in heating about the same thing that the Welsbach mantle did in gas lighting. It is to be urged in connection for it that it gives treble the heat with a gas fire, and the inventors claim the same gas consumption as an ordinary gas fire; that it takes up the carbonic oxide from the air and purifies the atmosphere; that it does away with the unpleasant smell given off by gas fires; that it burns brightly like a coal fire; that it is as cheap as fire clay and inexhaustible.



You can sell
SOLARINE
Only get it started in your town.
When people know its merits they buy readily.
Quality counts — **SOLARINE**
QUALITY brings business.
H. F. FALKINER,
60 George St., TORONTO
Ontario Distributor.

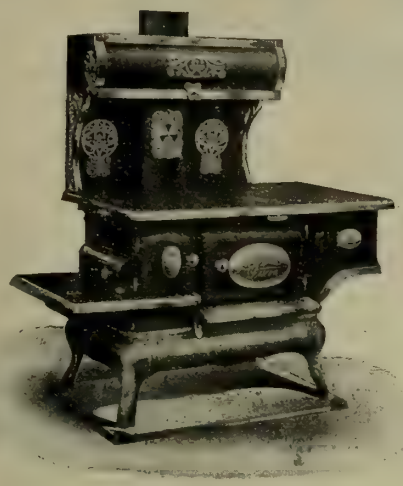
OAKEY'S The original and only Genuine Preparation for Cleaning Cutlery. 6d. and 1s. Canisters
'WELLINGTON'
KNIFE POLISH
JOHN OAKEY & SONS, LIMITED
MANUFACTURERS OF
Emery, Black Lead, Emery, Glass and Flint Cloths and Papers, etc.
Wellington Mills, London, England
Agent:
JOHN FORMAN, 644 Craig Street
MONTREAL.

For bicycles, fire-arms, candlesticks, door plates, taps, nickelware—in short, metal surfaces of all descriptions, use
YORK
Metal Polish, Liquid or Paste. Quick, clean, brilliant. 10c. and upwards.
SAMPLE FREE
ANGLO-CANADIAN SUPPLY CO.
3 Wellington St. E., TORONTO

IDEAL
Woven Wire Fencing

MAKES MONEY FOR YOU
Your customer, the farmer, wants a fence that can be put up quickly and easily just when he wants it. Hand made fences cost too much when you figure the time it takes to build them, to say nothing of the hard work.
Why not sell "The Ideal," the best woven wire fence made? You can build up a permanent trade that will pay you as much as any line you are handling. Other hardware merchants are doing it. Why not you? The Ideal will give satisfaction to your customer and make him your friend.
Have you seen the Ideal? Let us send you a sample and catalogue showing why Ideal fence made from No. 9 hard steel wire throughout is the strongest and the best value.
Ask us about the Ideal all metal farm gate.
The McGregor-Banwell Fence Co., Limited,
WALKERVILLE, ONT.
Merrick, Anderson & Co., Winnipeg, Man.
Sole agents for Man. and N.W.T.

A PERFECT BAKER



THE EMPIRE QUEEN RANGE

THE FLUES of our range are constructed on the most modern principles. When the baking draft is used the heat is forced round the oven twice and so arranged that the heat is spread uniformly on all sides. The heat, after leaving the fire-box, passes over the top of the oven, down the back, and under the oven; up the back and over the top of the oven, directly under the inner pot-hole, and into the smoke pipe, thus ensuring the quickest results from the oven and from cooking holes at the same time.

OUR AGENTS can make good use of this feature. Are you our agent? Write for our new booklet.

The Canadian Heating & Ventilating Co.
OWEN SOUND, ONTARIO. Limited



"SIXTY" SERIES

"TELEPHONE CITY"

Patent Top Draft Coal Heaters
Cast Top and Base

4 Sizes Single and one Double Heater.

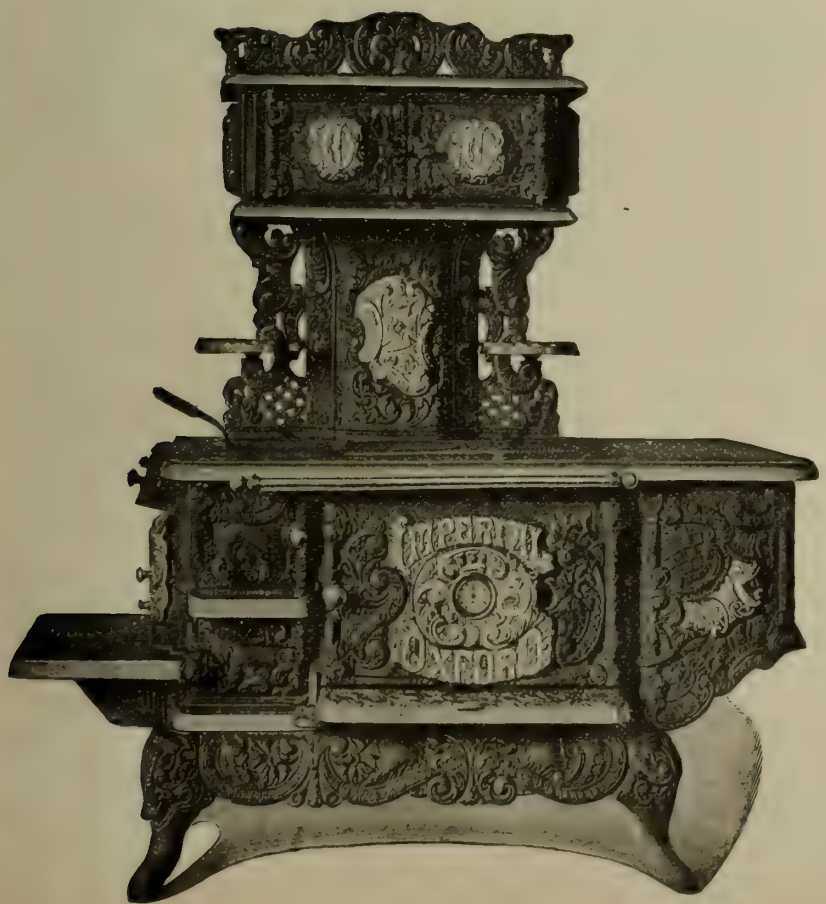
This series is fitted with either an improved Draw Centre Grate or the Ransom Duplex Grate.

A Special Ventilating Check Damper given with each stove.

The circulation of hot air is indirect and compels perfect radiation. The stoves are great fuel savers and wonderful heaters. Send for catalogue and prices.

We also make the "Fifty" series of coal heaters and the "Telephone City" and "Mohawk" air tight wood heaters.

TELEPHONE CITY STOVES, Ltd., BRANTFORD, CANADA.



Range buyers want a range that can bake and roast perfectly. All the nickel plate and promises you can make will not convince them to the contrary. In the

Imperial Oxford Range

you have something exclusive and definite to show. Explain to the range buyer the workings of the diffusive oven flue – how it draws in fresh air, superheats it and introduces it into the oven, keeping the oven at an even high temperature.

The diffusive flue and other exclusive features of the Imperial Oxford Range will make a sale every time. Try it.

The Gurney Foundry Co., Limited
TORONTO WINNIPEG VANCOUVER

The Gurney-Massey Co., Limited, Montreal,
The Gurney Standard Metal Co, Limited, Calgary, Alta.

BUILDING AND CONSTRUCTION

Building Notes.

R. S. Begg is to rebuild his grist mill at Port Elgin.

D. Morin, Quebec, is to erect an $8,0 00building.

Ottawa East is to spend $10,000 for a new public school.

The new Bell Telephone building at Brantford will cost $40,000.

The Moore Printing Co., Winnipeg, are to erect a $35,000 building.

A new school is being built at Elm Creek, Man., by F. R. Evans.

S. McLeod is erecting a $7,000 block of buildings at Prince Albert, Sask.

E. Frechette, Quebec, is to spend $3,000 on a new block in that city.

The C.N.R. is to erect a new station at Port Arthur at a cost of $38,000.

A new Anglican church is to be erected in the east end of Hamilton.

James and Adam Brown are to erect two $10,000 residences at Portage la Prairie.

The Norris Manufacturing Co. are to erect a large factory in Winnipeg this Summer.

The Gilmour Door Co., Trenton, are to spend $75,000 in extending its buildings and plant.

George Wright & Co. are to erect a five-storey stone and brick hotel at Winnipeg.

The Hoover Block in Winnipeg is to be changed into a labor temple at a cost of $25,000.

The Doherty Manufacturing Co., Sarnia, are building an addition to their foundry.

The Peterboro Hardware Co. has contracted to supply the Town Council with 3,500 barrels of cement.

The proposed Collegiate Institute at Peterboro will not be gone on with this year for lack of funds.

Pilkington Brothers, Vancouver, are making an addition to their glass warehouse on Powell street.

The New Brunswick Telephone Co. is to erect a large exchange and office building at Fredericton.

Bulman Brothers, Winnipeg, whose building was destroyed by fire last Fall, are preparing to rebuild.

Wm. Whyte, vice-president of the C.P.R., intends erecting a $30,000 mansion at Fort Rouge, Man.

A. St. G. Hamersley is to build a new block at Vancouver. The Western Club will occupy the building.

The contract for the erection of a $48,000 school at Regina has been let to A. Kallenbrunner, Regina.

The foundations are being laid for a large brick fireproof foundry for McEachern Brothers at Souris.

The National Supply Co., Winnipeg, is erecting a large warehouse in which to carry a stock of building material.

The Canadian Pacific Railway will build a new depot at Medicine Hat, the estimated cost of which is $20,000.

A large addition is to be made to the Toronto Armories. Wickett Brothers, Toronto, have been awarded the contract.

S. L. Currie has secured the contract to build the new school-house at Fredericton Junction, N.B., the cost to be $2,600.

Several hundred thousand dollars will be spent in the new Intercolonial shops and offices at Moncton. The shops will be 150 x 648 feet.

The large addition to the buildings of the Canadian Heating & Ventilating Co., Owen Sound, is nearly completed. The walls are built of concrete.

D. McGregor, Peterboro, formerly of Toronto, has completed the installation of the plumbing, heating and lighting systems in the new Y.M.C.A. building at Peterboro.

Stewart & Witton, Hamilton, have prepared plans for a large seven-storey building for C. J. Myles, which, when completed, will be the highest building in the city.

Clare & Brockest, Winnipeg, agents for Clare Brothers & Co., Preston, are building a large warehouse at Winnipeg. The erection of a foundry is also contemplated.

Mr. Jos. Hewette, tinsmith and plumber, of St. Hyacinthe, Quebec, has received the contract for the metal roofing to cover the new drill hall, which is to be erected in that town in the near future.

Work on the new six-storey building to be erected for the J. H. Ashdown Co. at Winnipeg has commenced. The completed building will cost in the vicinity of $100,000, and it will be ready for occupation by the end of the year.

The contract for the fireproofing of the new branch of the Molsons Bank, which is being erected at St. Henri, Quebec, has been let to the Pedlar People, of Oshawa, Ontario, manufacturers of metail ceilings, walls, shingles, etc.

The Metal Shingle & Siding Co., of Preston, have secured the contract for the ceilings in the new store which is being erected by T. Lindsay in Ottawa, and also the large store which is being erected by the T. Eaton Co. in Winnipeg.

Tenders are being invited for the construction of a four-storey warehouse in Winnipeg for the Thomas Davidson Manufacturing Co., Montreal, also for three additional storeys to the warehouse of the Consolidated Plate Glass Co., Winnipeg.

Building permits have been issued authorizing Stephen Jones, of Victoria, to erect a building in Vancouver to cost $70,000, and to add two storeys to the block being erected by Dr. Powell at the corner of Richards and Pender streets. This will bring the total cost of that building to about $40,000.

The Expanded Metal & Fireproofing Co., Toronto, have purchased the Canadian rights of the Jarvis system of reinforcing concrete beams, columns, etc., recently patented by Beaumont Jarvis, architect, of Toronto. In the Jarvis beam the cross section of metal is greatest in the centre of the beam, where the greatest bending or tension of the truss is located.

Fort Frances expects to have $270,000 spent on buildings and improvements this year as follows: Peat factory, $50,000; Wells' hardware store, $45,000; J. J. Stone's hotel, $30,000; St. Mary's Hospital, $25,000; industrial school, $35,000; Town Hall, $13.000; Catholic church and school, $9,000; sash and door factory, $3,000; dwellings and stores, $60,000. Over $80,000 was spent in 1904.

A million dollar hotel will be built in Ottawa this year. It will be located on the present site of the Grand Union Hotel, will be eight storeys high and contain 350 rooms. The structure will be fireproof throughout, the walls, roofs, facings, etc., being all of reinforced cement concrete, similar to the Ottawa University. All the decorative and finishing work will be of cement, mixed with crushed marble, which provides a fine effect.

Building

Building Permits.

MONTREAL.

A. Lacosse, dwellings, 720 Cadieux street, $4,250.

A. Dubuc, dwelling, Ontario street, Papineau ward, $7,000.

O. Taillon, dwellings, Dufferin street, Duvernay ward, $2,000.

D. Gagne, dwellings, Resther street, St. Denis ward, $3,600.

A. Pare & Co., dwelling, Mercier lane, Lafontaine ward, $2,000.

A. Joyce, warehouse and dwelling, Phillips square, $23,000.

A. Bourgault, dwellings, Island street, St. Gabriel's ward, $2,900.

J. Dillon, dwellings, MacGregor street, St. Andrew's ward, $16,000.

P. Marissette, dwellings, Moreau street, Hochelaga ward, $3,000.

R. Brisebois, dwellings, Cardinal street, St. Denis ward, $1,800.

L. O. Carrier, dwellings, St. Timothee street, St. James' ward, $2,400.

E. Tourangeau, dwellings, Frontenac street, Hochelaga ward, $1,500.

Mrs. F. Savond, dwellings, Aylwin street, Hochelaga ward, $3,000.

L. Betherose, dwellings, Dufresne street, St. Mary's ward, $2,000.

"DOMINION BRAND" TARRED FELT
(THE OLD RELIABLE QUICK SELLER)

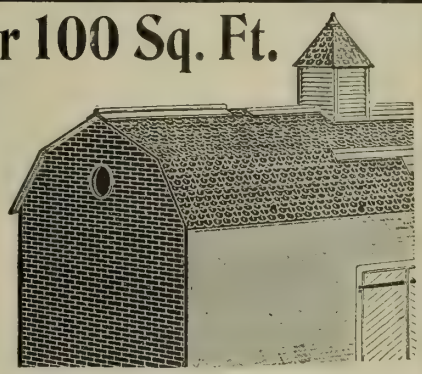
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All goods shipped day after order is received. We are the largest concern of the kind under the British Flag. Established 1861. Capital Invested $150,000.00.

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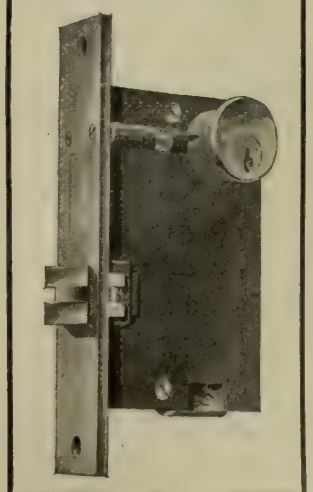
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HAMILTON

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Vancouver—The Gurney, Tilden Co., Limited

AGENCIES
Montreal—Nicoll & Barr, 85 St. Peter St.
St. John—Nicoll & Barr, 38 Dock St.

J. O. Gagnon, dwellings, Joliette street, Hochelaga ward, $2,200.
H. Prevost, store, St. Catherine street, St. Andrew's ward, $5,700.
P. B. Mignault, dwelling, Crescent street, St. Andrew's ward, $9,000.
Montreal Steel Works, alterations to factory, St. Patrick street, $5,400.
Bank of Hochelaga, alterations to branch, 1186 St. Denis street, $10,000.
Mrs. R. Coogan, alterations to store and dwelling, 37a Bleury street, $2,200.
Mrs. J. B. Galerneau, dwellings, Beaudry street, St. James' ward, $3,000.
Montreal Waterproof Co., warehouse, Papineau avenue, Papineau ward, $5,000.
Molsons Bank, branch office, corner of St. Catherine and Stanley streets, $50,000.
Mrs. T. Kelly, alterations to dwellings, Ropery street, St. Gabriel ward, $1,500.
Montreal Steel Works, office, corner of St. Etienne Conde and St. Patrick streets, $16,000.
Lapierre, Denis & Lapierre, dwelling, corner of Demontigny and Dufresne streets, $2,666.

TORONTO

Arthur Dinnis, dwelling, 126 Walmer road, $5,000.
Major P. S. Mason, dwelling, 179 Park road, $7,000.
S. B. Gundy, dwelling, 46 Chestnut Park road, $5,500.
A. F. Clubb, dwelling, 74 Chestnut Park road, $7,500.
S. B. Coon, dwelling, Roxborough street west, $3,500.
Francis Jones, one pair dwellings, Bank street, $4,200.
Phippen Bros., one pair dwellings, Howie avenue, $2,000.
William Murray, one pair dwellings, Kendall avenue, $6,000.
Arthur Mitchell, one pair dwellings, Brunswick avenue, $5,000.
F. J. Male, three attached dwellings, Margueretta street, $5,000.
Herbert Galbraith, three pair dwellings, Grace street, $12,000.
Geo. Bell, three dwellings, corner First and Logan avanues, $3,500.
D. E. Butchart, addition to dwelling, 268 Westmoreland avenue, $1,500.
Lunness & Markham, one pair dwellings, 123 and 125 Roxborough street, $4,000.
A. T. Gregory, store and dwelling, corner of Close avenue and Queen street, $10,000.
E. A. Tomlin, store and dwelling, corner of Broadview avenue and Elliott street, $3,000.
Dominion Realty Co., dwelling and bank, corner of College and Spadina avenue, $12,000.
Batty Stove & Hardware Co., addition to building, 180 and 182 Adelaide street west, $2,500.

HAMILTON.

H. Hill, dwelling, Vine street, $1,800.
J. A. Armes, dwelling, Park street, $2,000.
Miss M. Elder, two dwellings, Erie avenue, $3,500.
John Crawford, dwellings, corner of Locke and King streets, $6,000.
J. A. Armes, dwellings, corner of Mary and Simcoe streets, $5,700.
Stewart & Witton, store and dwelling, corner York and Queen streets, $3,500.
Munroe & Mead, architects, wine vaults, corner of Sanford and Aikman avenue, for Raymond Haskins, $14,000.

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HANOVER, ONTARIO
Manufacturers of the celebrated **"Saugeen Brand"** OF PORTLAND CEMENT.
Prices on application.

"THE EMLYN" SAW BENCH
Made in 6 sizes. Best value obtainable. Specially designed for export With or without "Emlyn" Patent Guard. Sole maker—
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Cables— "Machinery," Newport. Emlyn Engineering Works NEWPORT, MON., ENGLAND

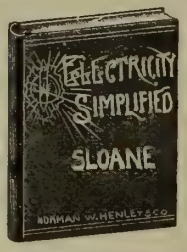
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Combine all the qualities desirable in a Door Closer. They work silently and effectually, and never get out of order. In use in many of the public buildings throughout Great Britain and the Colonies.
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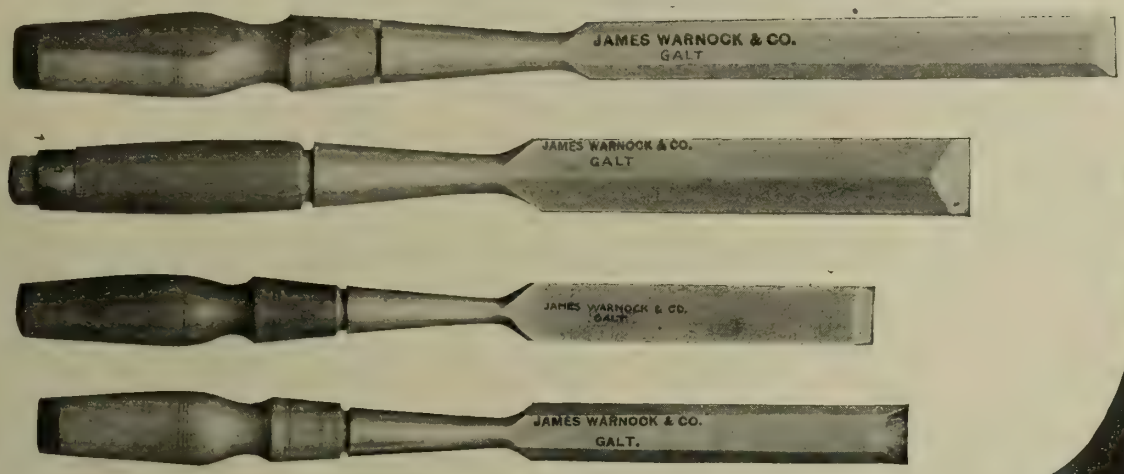


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is the most convenient and home-like of all tents. May be divided into four bed rooms and living room.
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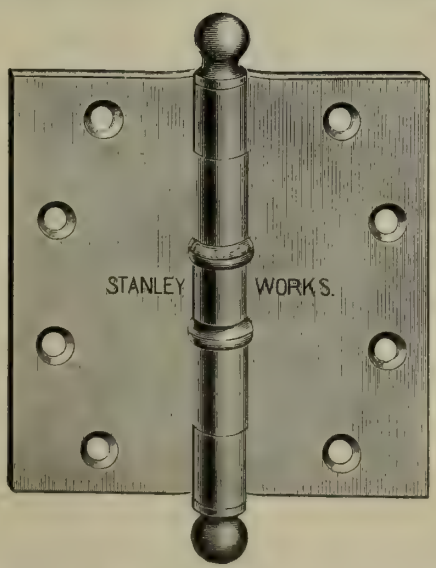
Stanley's Ball-Bearing Hinges

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FULL SIZE

IT IS SO CONSTRUCTED THAT IT WILL NOT COME APART IN USE



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THE STANLEY WORKS, New Britain, Conn.

FOR SALE BY LEADING JOBBERS.

USES OF CONCRETE IN THE WEST.

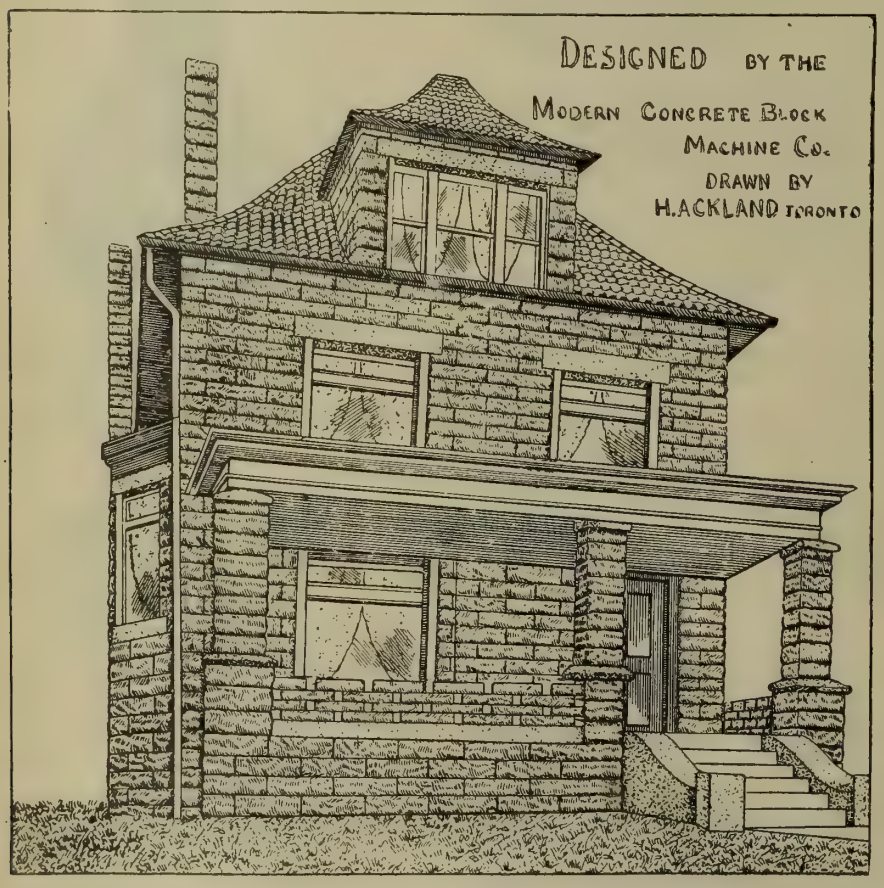
By M. G. Mulholland.

ONE of the striking features of the building business in Western Canada is the fact that the country bears no stone or wood, and it is only at rare intervals that a deposit of brick clay is found. This scarcity causes, as is natural, much higher prices in these staples, and it is for this reason that we are finding concrete in numerous forms coming to be an important factor in the building business. Still it is not price alone that is bringing concrete work to the fore, but the very satisfactory results that builders of all classes of construction have had from its use, and its thorough reliability warrants its being a permanent addition to the list of materials at builders' disposal.

When one stops to consider the uses to which cement might be put under the conditions we have in the West, the number and extent are almost bewildering.

From the point of view of the farmer, his house, his stables, his foundations, his cisterns, troughs and reservoirs, his silos and his drains and culverts can all be readily and easily constructed of cement concrete. From the farmer's point of view, also, concrete has many advantages that none of the ordinary building materials have. One of the first of these is permanency. Any construction that the farmer puts up of concrete will last him ten times as long as the same building in lumber, and twice or three times as long as brick or stone. Any first-class cement construction will grow harder with age instead of disintegrating, as does construction of brick and stone. Another most important advantage is the fact that concrete will not burn, and its use as a fireproofing is developing with astonishing rapidity.

One of the recent forms of concrete work is that of hollow building blocks.



[A Residence Showing Concrete Block Construction].

While this idea is comparatively new in the West, it is becoming widely known, and in rural localities cement blocks for residences, barn foundations, small stores, and warehouses, and in some cases, larger and more imposing buildings, are being erected of this form of concrete construction. In our extreme climate, the hollow wall, provided by this system, is of great advantage in making a house both warmer in Winter and cooler in Summer, and for the same reason the non-conductive property of the hollow wall. Added to this are the advantages of quick erection, imposing and substantial appearance, durability and fireproofness. For stables this hollow wall is most important, for there the advantage of non-conduction or frost-proofness shows to best advantage. Stable walls of field stone and rubble will often show several inches of frost on the inside, while, built of blocks, they will show small traces of it. Then for the other work we have mentioned, as foundations, cisterns, troughs, etc., not only will the farmer find these necessities, when made of concrete, more durable, but there is the other advantage in that he can readily and easily make all these for himself right on the farm. He doesn't need a carpenter or a stonemason, whose wages are high, but can use his own help, draw on some sand and gravel, buy some good cement, and readily turn these into his own needs at comparatively small expense. Culverts and small bridges made of concrete will readily withstand the threshing engine, and certainly will not rot.

The towns and villages are finding that the truest economy in municipal improvement, is in cement construction. Plank sidewalks are being replaced with concrete, and curbing, retaining walls, and water works reservoirs, are being almost invariably built of the same material. In making sewers, mains and drains, thousands of barrels of cement are being used annually. Power-houses, reservoirs, viaducts and bridge piers are now almost invariably made of this material.

From the railway man's point of view, cement is indispensable where his steel, stone and timber has to be hauled such great distances. In the United States, reinforced concrete bridges are coming into favor, and this particular use is one that should and will be developed in the immense railway extension of Canada West in the next few years. For round-houses, repair shops, freight sheds, and storage warehouses, reinforced concrete can be used to splendid advantage, and railway engineers are beginning to see that even for their highest class of construction in stations and hotels, the fireproofing and strength afforded by this material is secured to a greater extent, and at less cost, than is possible by any other system.

For large warehouses where heavy loads are to be carried and where fireproofness is an essential, and in stores and office buildings where the absence of strength and fire resistance in the construction may mean loss of human life, reinforced concrete is the one material that means absolute safety. And the small additional cost at which the absolute safety may be secured, makes it worth while having for itself, while in every case the saving in insurance will pay handsome dividends on the extra investment.

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ARE SUPERIOR TO ALL OTHERS IN MATERIAL, TEMPER, WORKMANSHIP, FINISH AND CUTTING QUALITIES.

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Ask for quotations for Septic Tanks.

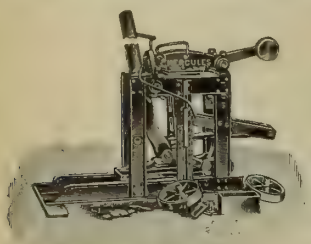
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That's what a shelf bracket is for.

For this purpose there can be NOTHING BETTER, NOTHING CHEAPER than the BRADLEY STEEL BRACKET. It is well Japanned, Strong and Light. The saving in freight is a good profit, aside from the lower price at which the goods are sold. Order direct or through your jobber.

ATLAS MFG. CO.,
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Bricks! Bricks! Bricks!



If you know of anyone intending to make bricks, induce him to use one of our

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IT WILL PAY YOU

No previous experience needed.

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P. O. Box 198 BRUSSELS (Belgium)

Cable Address "FORWARD BRUSSELS."
Indents through European merchants.

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Salt Glazed Vitrified

SEWER PIPE

Double Strength Culvert Pipe a Specialty.

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"THE MONARCH"

An A1 Block Machine, complete in every detail, and sold at a price which brings it within the reach of all.

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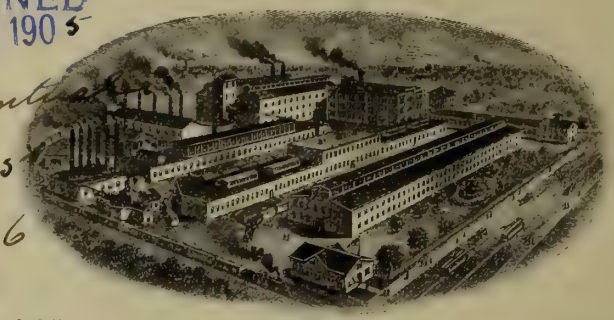
CONCRETE BLOCK MACHINE CO.

32 Church St., - Toronto.

ROOFING MANUFACTURERS' PLANT.

The accompanying illustration represents a view of the manufacturing plant of the Phillip Carey Manufacturing Co., manufacturers of boiler and pipe coverings and roofing, of Lockland, Ohio. The ground space used in connection with this immense plant comprises thirty acres, while the floor surface totals in the neighbouhood of fifteen acres. This company was formed in the year 1873, and during their career they have become so well known that to-day, besides owning such a plant as that at Lockland, they have two branch manufacturing plants—one at Plymouth Meeting, Penn., and the other at Baldwinsville, Mass. They have also established during the thirty-two years 35 branch offices, two of this number being situated in Canada, one on Front street east, Toronto, and the other at No. 22 Victoria square, Montreal.

RETURNED
MAY 30 1905
To Montreal
Cat Book 35
Page 66



General Office and Works of The Philip Carey Mfg. Co., of Lockland, Ohio.

TREE BRAND SCISSORS.

An oak cabinet, having five illustrations of Tree Brand Scissors, is given away with an order for one-half dozen of each line illustrated, that is, one embroidery, one bent nail, one 4½-inch pocket, one 5 and one 6-inch regular scissors, all finest finished and fully nickeled with bevelled bows, and very best quality. The goods fit exactly over the illustrations so that the salesman cannot put the scissors in the wrong place. The cabinet will help to increase the scissor trade. It may be had through any leading wholesale hardware firm.



Improved Automatic Cycle Skate.

AUTOMOBILE CYCLE SKATE.

THE Cycle Skate & Sporting Goods Co., 37 Park street, New York, have just put on the market the new form of automobile cycle skate here shown. It is made with 5-inch solid cushion rubber tires, the constituent parts being formed in dies from sheet steel and Shelby seamless tubing. An important feature of the new skate is the positive fastening of the telescoping tubes, which are adjustable from 10 to 12 inches, inclusive, there being one hole through the outer tube and a series of holes at suitable distances through the inner tube, by means of which a round head screw passes through both tubes and is held rigidly by nut and curved washer underneath. If by any means the nut should be lost the union of front and rear sections is secured regardless of clamp and strap fastenings. The tires are rigidly held in position by substantial inner lugs, which are a part of the tire itself, screws with nut fastenings passing through the lugs and clamping steel spokes and tire in one solid wheel, which runs on steel ball bearings, having hardened steel cups and cones. These skates are designed for young people and adults, for use on asphalt surfaces or touring across country on macadamized or other fairly good roads.

INDUSTRIAL GOSSIP

HARDWARE AND METAL would be pleased to receive from any authoritative source industrial news of any sort, the formation or incorporation of companies, establishment or enlargement of mills, factories, foundries or other works, railway or mining news. All correspondence will be treated as confidential when desired.

A LEADING official of the Montreal Locomotive and Machine Co., which is the Canadian branch of the American Locomotive Co., is authority for the statement that slightly over 200 locomotives will be turned out of the different Canadian plants this year, which would be fully 60 more than had been turned out in any previous year. The output for last year had been 140, and of this number 50 had been turned out by the Montreal Locomotive Co., 25 at the Grand Trunk shops, 5 at the Canadian Pacific Railway shops, 30 at the Canadian Locomotive Works at Kingston, and 10 at the Canada Foundry Co. This year, while the Grand Trunk would not be building any engines, the Montreal Locomotive Co. would turn out 50, the Canadian Pacific would turn out 45 from their own shops, while the Canada Foundry Co. would build 5 for the James' Bay Railway.

Gordeau & Robbins are to establish a large tannery at Winnipeg.

The Shurly & Dietrich Saw Works, at Galt, Ont., will be enlarged.

Summerside, P.E.I., is to install a sewerage and water works system.

The Pease Furnace Co. are to establish a new foundry in Toronto, to cost $25,000.

Brantford water commissioners have decided to ask for tenders for three new tubular boilers.

Messrs. Smith & Wilby will start a foundry at Toronto for the manufacture of steel castings.

Charlottetown, P.E.I., has been granted power to build a municipal electric light or gas plant.

A new company is endeavoring to secure the right to install a gas and electril light plant at Galt.

An American firm has purchased the factory, formerly occupied by the Cockshutt Plow Co., at Brantford.

The B. C. Electric Railway and Lighting Co. have purchased the Victoria Gas Co. for about $200.000.

The N. B. Foundry, at Fredericton, is to extend its plant and go into the manufacture of railway mouldings.

The Toronto Gas and Gasoline Engine Co. has secured a site on which they intend to erect a $15,000 factory.

The Canadian Machine Telephone Co. has completed stringing the wires for its new system of 400 phones at Peterboro.

The Town of Prescott has carried a by-law giving the Palmer Piano Mfg. Co., of Toronto, $40,000 to locate in Prescott.

The Northern Varnish Co. is to establish a varnish factory at Owen Sound. Contracts for the building have already been let.

The Dutton Steel Works Co., Toronto, may locate at Brantford. The Heinz Pickle Co. are to erect a station in the Telephone City.

A by-law has been carried in Regina favoring the spending of $160,000 to complete the water works, sewage and electric light systems.

Berlin has refused to offer the Dennis Wire & Iron Works Co. $15,000 to locate in Berlin. The vote was a few short of the required number.

The William Hamilton Mfg. Co., Peterboro, have secured the contract for equipping the new dredge Emerson, to be used on construction work on the Trent Canal.

The D. Hibner Co., of Berlin, have agreed to take over the Listowel chair factory and operate it for ten years in return for certain concessions. They will spend $10,000 in extending the plant.

The Union Drawn Steel Co., which is to build a large factory at Hamilton, has decided to install a plant in temporary quarters and begin to manufacture drawn steel about July 1. Between 50 and 60 men will be employed.

The McLachlan Gasolene Engine Works Co., Toronto, are so rushed with orders that one for $53,950 worth of engines for use in the Northwest has been refused. The company is to erect new shops at Swansea and double their output.

The Montreal Lumber Association of the Montreal Board of Trade, has been organized, with thirty members enrolled, comprising all the most important firms connected with the lumber business. Ald. J. F. Marchand is the president of the association.

A project is on foot to establish a large smallware factory at Haileybury, to manufacture handles and other woodwares. The company proposes to spend $100,000 within the next year, and $500,000 within three years. W. D. Davidson, Rawdon, Que., is behind the project.

The Canadian Westinghouse Co., Limited, recently sold to the Edmonton Street Railway Co. a 200 kw. railway generator and a number of double equipments of railway motors. Edmonton is the most northerly point on the American continent to operate an electric street railway.

Statuary marble, the equal of any in the Carrara quarries of Italy, has been discovered by two English decorators near Madoc, and quarries are now being worked, 15 men being employed. The promoters claim that, as a result of their find, sculptors, who now have to pay £4 a foot for Carrara marble, will be able to buy it in Canada for $1.

The Sault Ste. Marie Pulp & Paper Co. to-day commenced the manufacture of tarred building paper. The company's new plant, which is the only one for the manufacture of tarred paper in Ontario, has a capacity of twenty tons daily, and will be kept running steadily day and night. The product will be supplied to the markets of the Northwest.

The Berlin Electric Co. have been awarded the contract from Clare Bros. & Co., Limited, Preston, for the installation of electric machinery throughout their entire plant. The company is doing away with long shafting and belting, and substituting the electric drive, which reduces the transmission losses from 18 to 25 per cent. They are also installing about 175 incandescent and 16 arc lamps. The equipment throughout will be Westinghouse.

The Pictou Smelting Co., Limited, has been incorporated by special Act with capital of $300,000. The incorporators are: Alonzo R. Bayne, Boston; John U. Ross and John R. Davies, Pictou. A clause in the new company's charter empowering the company to withhold part of workmen's wages to cover cost of insurance against employers liability was amended by the Legislature to make the cost of such insurance a charge on the company if undertaken.

The Niagara-Welland Power Co. have completed the final surveys of the power canal, and are now receiving tenders for the construction of the canal and power house and transmission lines. It is intended to develop 100,000 horse power at the outset, and to install hydraulic and electric machinery for 50,000 horse power capacity. The proposed route of power transmission involves a total distance of more than 200 miles. The lines will serve St. Catharines and all the principal towns — Thorold, Merritton and others in the Niagara Peninsula and Western Ontario.

COMPANIES INCORPORATED.

Dow-Wadge Implement Co., Limited, Winnipeg; share capital $100,000; purpose, to manufacture and repair machinery. The directors are: D. Dow, Grand Forks, North Dakota; T. Wadge, F. B. Blanchard, J. A. Waugh, and E. E. Sharpe, all of Winnipeg.

Carriage Mountings Co., Limited, Toronto; share capital $40,000; purpose, to manufacture carriage mountings, hardware specialties, and metal goods. The directors are: W. P. Kinzinger, A. Kinzinger, S. A. Kinzinger, G. M. Kinzinger, and R. A. Kinzinger, all of Toronto.

Knight Bros. Co., Limited, Burks' Falls; share capital, $150,000; purpose, to manufacture building material, cereal foods, etc. The directors are: H. Knight, W. Knight, W. Sharpe, C. W. Sharpe, J. Hilliar, and H. L. Barber, all of Burks' Falls; R. Clay of Katrine, and A. Barber, of Bowmanville.

Jas. Langmuir Co., Limited, Toronto; share capital $25,000; purpose, to manufacture paints, oils and varnishes. The directors are: J. Langmuir, W. Read, G. Ritchie, S. E. Townsend, and H. Dale, all of Toronto.

St. Lawrence Engine Co., Limited, Brockville; share capital $40,000; purpose, to manufacture boats, boilers, hardware, etc. The directors are: H. W. Going, W. H. Comstock, R. H. Smart, E. Smart, and C. A. McNaughton, all of Brockville.

The Metal Shingle & Siding Co., of Preston, Limited, have increased capital stock from $50,000 to $200,000.

The T. Eaton Co., Limited, Toronto, have increased capital stock from $500,000 to $1,000,000.

Canadian Fairbanks Co., Limited, Montreal, have been given power to transact business in Ontario with Chas. J. Brittain, of Toronto, as its attorney.

HOTEL DIRECTORY.

NEIL McCARNEY, Prop. W. O. McCARNEY, Manager

THE PROVINCIAL

Leading Commercial Hotel. GANANOQUE, ONT
Located in Heart of Business Section. Ten First-class Sample Rooms.

HOTEL GRAND

O. F. BAKER, Prop. GALT, ONT
First-class accommodation for Commercial Men.

WINDSOR HOTEL, HAMILTON, BERMUDA

This House is pleasantly and conveniently located on the East Side of Queen Street. The rooms are bright and cheerful. Every attention paid to guests. Billiards and pool. Hot and cold water baths. A. McNICOL, Prop.

TOWER HOTEL, GEORGETOWN, DEMERARA, BRITISH GUIANA.

This first-class hotel is most conveniently situated in the coolest and healthiest part of the city, within one minute from Post and Telegraph Offices, Tram Junction and principal clubs. Five minutes from railway station and steamer stallings, and near to all principal public buildings. Cool and lofty bedrooms. Spacious Dining and Ladies' Rooms. Billiard Room. Electric light throughout.

VICTORIA LODGE

Mrs. J. F. SMITH, Proprietor. HAMILTON, BERMUDA
Opposite Victoria Park and Cedar Ave. Private board $12 to $14 per week.

BOARD AND ROOM
"THE ARGYLE,"

Mrs. FRASER Cedar Avenue, HAMILTON, BERMUDA
Terms moderate. Also furnished cottages.

THE AMERICAN HOUSE

A. PASCHAL (Prop.) HAMILTON, BERMUDA
Centrally located. Open all the year round.

WOODSIDE BOARDING HOUSE

(Corner of Main and Lamaha Streets, GEORGETOWN, DEMARARA.)

Cool and airy Bedrooms, Excellent Cuisine, Attendance Qualified. Terms Moderate. Electric Car Loop at gate or premises. Patronage Solicited. Manageress, E. Cottam.

WINTER RESORT—Queen's Park Hotel.

PORT OF SPAIN, TRINIDAD, B.W.I.

John McEwen, Manager. For Rates, etc., apply Trinidad Shipping & Trading Co., 29 Broadway, New York.

1,000 White Business Envelopes, $1.00

(PRINTED TO ORDER)

This offer is to get you started. We want your trade, and we don't do cheap-looking work, either. Give us your next job, and you will be satisfied.

G. A. Woese & Son, 44 Yonge St., Toronto

Write for Catalogue of Printing.

THE TELEPHONE

Is a companion, friend and servant combined.
Invaluable for convenience in the household.

LONG DISTANCE TELEPHONE SERVICE

Has no equal for the facility it affords in business life.
Full particulars as to rates and service at the nearest office of

THE BELL TELEPHONE COMPANY OF CANADA

FINANCE

THE Penny Bank, which was opened in Toronto in April, is an interesting institution. Its object is to encourage a spirit of thrift among school children. Educators never tire of telling how powerful are the habits of the child in moulding his future career. The habit of saving, which is developed in the child by opening a bank account, should be of inestimable value in later life. The name of "Penny" is justified by the fact that deposits as low as 2c. are received. No director or anyone associated in the work, can receive anything for his services. Only those in the actual employment are paid, so that the object of those interested in the bank is entirely philanthropic.

* * *

There are thirty-four chartered banks in Canada. The total authorized capital is $100,546,666. The paid-up capital is $81,431,491, and the reserve fund $54,711,209. The notes in circulation amount to $58,828,919.

* * *

Advocates of municipal ownership of the public utilities will see an interesting experiment worked out in Chicago during the next two or three years. The election last month of Mayor Dunne ensures the city taking over the street railways as soon as the franchises expire, which will happen in the next few months. On the success or failure of this trial will depend the whole question of civic ownership for years to come.

* * *

The conditions in Chicago might serve as an object lesson not only to civic authorities but to the corporations who control the public utilities. By inefficient service and excessive rates, a company which has a monopoly may increase its dividends for a few years. But the public will not put up with these injustices indefinitely. An upheavel is bound to come sooner or later, and the corporations will be only subserving their own best interests when they recognize this and commence giving a fair service. The organization of independent telephone companies, and the taking over of franchises by municipalities, are outward evidences of the same condition. The public has become tired of being held up by these monopolies.

* * *

A new fire insurance company has been incorporated in Canada, under the title of the Richmond and Drummond Fire Insurance Co. It is intended to begin operations with a subscribed capital of $250,000, 25 per cent. paid up. A further call of 5 per cent. will be made annually for the next three years, making 40 per cent. in all, or $100,000 cash capital.

* * *

The probability of a serious loss by fire is materially reduced, and fire insurance rates are favorably affected, if the insured maintains a reliable private fire alarm system. In certain classes of buildings as large factories, hotels, public institutions where large numbers of inmates are housed, theatres, etc., the necessity for the installation of every type of apparatus, automatic or manual, which tends to hasten the turning in of fire alarms needs no emphasis. Alertness in the detection of fire outbreaks may save thousands of dollars' worth of property and perhaps human lives as well.

At a meeting of the board of directors of the Bank of Toronto, held last week, Mr. W. H. Beatty, the vice-president, was elected president, to fill the vacancy caused by the death of Mr. George Gooderham, and Mr. W. G. Gooderham was elected vice-president. Mr. Albert E. Gooderham was also elected a member of the board. Mr. Beatty has been a director of the bank since 1882. He was one of the charter members of the Gooderham & Worts Co. He is senior partner in the law firm of Beatty, Blackstock, Riddell & Chadwick.

* * *

The application at Ottawa for incorporation of a new bank, with head office at Toronto, has excited little interest in financial circles. The granting of a charter does not necessarily mean organization and operation. It has been reported that opposition would develop to further granting of bank charters, it being argued that the interests of the present banks, as well as the public good, would be best conserved by increase in capital of present institutions rather than organization of new banks. There are now some bank charters in existence which have not been acted on.

WESTERN ASSURANCE COMPANY. Incorporated 1851

FIRE AND MARINE

Head Office Toronto, Ont.

Capital -	$1,500,000.00
Assets, over - -	3,300,000.00
Annual Income -	3,890,000.00

HON. GEO. A. COX, President.
J. J. KENNY, Vice-President and Man. Director.
C. C. FOSTER, Secretary.

THE CANADIAN BANK OF COMMERCE

Paid-up Capital, - - $8,700,000
Rest, - - - - - - $3,500,000

HEAD OFFICE: TORONTO, CANADA

HON. GEO. A. COX, Pres. B. E. WALKER, General-Manager.

LONDON, ENG., 60 Lombard St., E.C. S. Cameron Alexander, Manager.
NEW YORK, N.Y., 16 Exchange Place, Wm. Gray and H. B. Walker, Agents.

TRAVELLERS' LETTERS OF CREDIT

The Travellers' Letters of Credit issued by this Bank are a great convenience to Travellers. They are available in all parts of the world, and the holder is enabled, without risk or difficulty, to obtain such sums as he requires at any point in his journey.

BANK MONEY ORDERS
AT THE FOLLOWING RATES:

$5 and under	3 cents
Over $5 and not exceeding $10	6 cents
" 10 " " 30	10 cents
" 30 " " 50	15 cents

These Orders are **Payable at Par** at any office in **Canada** of a **Chartered Bank** (Yukon excepted), and at the principal banking points in the **United States.**

Negotiable at a fixed rate at The Canadian Bank of Commerce, London, Eng.

Money

CAN BE SAVED BY MEANS OF AN ENDOWMENT POLICY.

YOU CAN ONLY SECURE SUCH A POLICY WHILE YOU ARE IN GOOD HEALTH.

Pamphlets and Full Particulars regarding the New Accumulation Endowment Policy sent on application.

Confederation Life ASSOCIATION.

W. H. BEATTY, PRESIDENT.
W. C. MACDONALD, ACTUARY. J. K. MACDONALD, MANAGING DIRECTOR.
HEAD OFFICE, - TORONTO, CANADA.

CAPITAL PAID UP, - - $1,000,000.
RESERVE FUND, - - 1,000,000

THE METROPOLITAN BANK.

DIRECTORS
R. H. WARDEN, D.D., President S. J. MOORE, Esq., Vice-President
D. E. THOMSON, Esq., K.C. His Honor W. MORTIMER CLARK, K.C
THOS. BRADSHAW, Esq. JOHN FIRSTBROOK, Esq.

HEAD OFFICE, - TORONTO.
W. D. ROSS, GENERAL MANAGER.

GENERAL BANKING BUSINESS TRANSACTED

SAVINGS DEPARTMENT at all Branches.
ACCOUNTS SOLICITED
Drafts Bought and Sold.
Letters of Credit Issued.

BRITISH AMERICA ASSURANCE COMP'Y

FIRE AND MARINE.
Incorporated 1833

CASH CAPITAL, $850,000.00.
TOTAL ASSETS, $2,043,678.59.
LOSSES PAID SINCE ORGANIZATION, $25,868,544.80.

HEAD OFFICE, - BRITISH AMERICA BUILDING, Cor. Front and Scott Sts., Toronto.

HON. GEO. A. COX, President. J. J. KENNY, Vice-President and Managing Director
P. H. SIMS, Secretary.

We Want You——

to examine our lines—Made in Canada, in our own factories, under our very eyes, every fibre of the goods being based on 25 years of study and development. NONE BETTER, NONE CHEAPER.

Black Diamond Brand **TARRED FELT** **Black Diamond Brand**

2 and 3 Ply Ready Roofing.
Grey and Straw Sheathings, tarred and dry.
Building Papers, "Cyclone," "Crown," "I.X.L."
Pitch and Roofing Cement.
Distillers of Coal Tar.

Wall, News, Book and Colored Papers.
Manilla, Brown, Fibre and Grey Wrapping.
Carpet Felts.

ASK FOR OUR QUOTATIONS—THEY WILL INTEREST YOU.

FELT FACTORY, Harbour and Logan Sts., MONTREAL. PAPER MILLS—JOLIETTE, Que.

ALEX. McARTHUR & CO., LIMITED, 82 McGill Street, MONTREAL

CURRENT MARKET QUOTATIONS.

May 12, 1905.

These prices are for such qualities and quantities as are usually ordered by retail dealers on the usual terms of credit, the lowest figures being for larger quantities and prompt pay. Large cash buyers can frequently make purchases at better prices. The Editor is anxious to be informed at once of any apparent errors in this list, as the desire is to make it perfectly accurate.

METALS.

TIN.

Lamb and Flag and Straits—	
56 and 28-lb. ingots, 100 lb.	$32 00 $33 00

TINPLATES.

Charcoal Plates—Bright.

	Per box.
M.L.S., equal to Bradley—	
I C, usual sizes	$6 50
I X "	8 00
I X X "	9 50
Famous, equal to Bradley—	
I C	6 50
I X	8 00
I X X	9 50
Raven and Vulture Grades—	
I C, usual sizes	4 25
I X "	5 00
I X X "	5 75
I X X X "	6 50
"Dominion Crown Best"—Double Coated, Tissued.	Per box.
I C	5 50
I X	6 50
I X X	7 50
I Allaway's Best"—Standard Quality.	
I C	4 50
I X	5 50
X	6 50

Coke Plates—Bright.

Bessemer Steel—	
I.C., usual size, 14x20	3 50
I.C., special sizes, base	3 75
20x28	7 50

Charcoal Plates—Terne

Dean or J. G. Grade—	
I.C., 20x28, 112 sheets	7 50
IX., Terne Tin	10 50

Charcoal Tin Boiler Plates.

Cookley Grade—	
X X, 14x56, 50 sheet bxs. / 14x60, " / 14x65, "	7 00

Tinned Sheets.

72x30 up to 24 gauge	7 25 7 50
" " 26 "	7 75 8 00

IRON AND STEEL.

	Montreal.	Toronto.
Common bar, per 100 lb	1 80	1 80
Forged iron "	2 05	2 05
Refined " "	2 20	2 05
Horseshoe iron "	2 02½	....
Hoop steel, 1¼ to 3 in. base	....	....
Sleigh shoe steel "	1 97½	....
Tire steel	2 07½	....
T. Firth & Sons, tool steel—		
Speedicut	....	0 60
Annealed speedicut	....	0 65
Self-hardening	....	0 36
Best tool steel	....	0 12
Warranted	....	0 09
Best sheet steel	....	0 12
B. K. Morton & Co.—		
"Alpha" high speed	....	0 65
" annealed	....	0 70
"M." Self-hardening	....	0 50
"J" quality	....	0 18
"I" "	....	0 14
"BC" "	....	0 09
Jonas & Colver's tool steel	0 10	0 20
" "Novo"	....	0 65
" " annealed	....	0 70
Chas. Leonard	0 08	0 09
Crucible Steel Co.—		
" Rex high speed steel	0 65	0 75
" Self-hardening	0 45	0 50
Crucible Special	....	0 17
" Silver steel	....	0 13
" Black Diamond	0 10	011
Sanderson's Crucible steel	0 08	0 09
" Superior "	0 12	0 13

BABBIT METAL.

Syracuse Smelting Works:

Aluminum, genuine	0 45
Government, "	0 44
Tough, "	0 40
Hard, "	0 40
Dynamo	0 30
Special	0 25
Maganese	0 18
Car Box	0 17
Extra	0 13
No. 1	0 10
No. 2	0 07
No. 3	0 05½

Large orders subject to discounts.

The Canada Metal Co.:

Imperial, genuine,	0 40
Metallic	0 30
Hercules	0 20
Star	0 15
No. 1	0 12
No. 2	0 10
No. 3	0 06
No. 4	0 05

BLACK SHEETS.

	Montreal.	Toronto
10 gauge	2 30	2 30
12 and 14 gauge	2 25	2 35
17 "	2 20	2 40
22 to 24 gauge	2 05	2 50
26 "	2 10	2·65
28 "	2 15	2 70

COPPER WIRE.

Discount, 50 per cent.

CANADA PLATES.

Ordinary	2 50	
All bright	3 75	
Galvanized Canada Plates—		
J. C. M. 3 Crowns		
16 x 21 x 60	3 33	
18 x 24 x 52	3 33	
18 x 24 x 60	3 56	
	Ordinary.	Dom. Crown.
18x24x52	4 25	4 35
" 60	4 50	4 60
20x28x80	8 50	8 70
" 94	9 00	9 20

GALVANIZED SHEETS.

	Fleur-de-Lis.	Gordon Crown.
16 to 20 gauge	3 40	....
22 to 24 gauge	3 50	3 50
26 "	3 75	3 75
28 "	4 00	4 15

	Comet Bell.	Queen's Head
16 to 20 gauge	3 40	....
22 to 24 gauge	3 45	3 65
26 "	3 70	3 90
28 "	3 95	4 15

American brands, $3.90 for 10¾ oz.
Less than case lots 10 to 15c. extra.

CHAIN.

Proof coil, 3-16 in., per 100 lb.	7 00	10 00
" ¼ "	....	5 60
" 5-16 "	....	4 45
" ⅜ "	....	3 86
" 7-16 "	....	3 70
" ½ "	....	3 55
" 9-16 "	....	3 45
" ⅝ "	....	3 35
" ¾ "	....	3 25

Halter, kennel and post chains, 40 to 40 and 5 per cent.

Cow ties	40 p.c.
Tie out chains	65 p.c.
Stall fixtures	35 p.c.
Trace chain	45 p.c.

Jack chain, iron, single and double, discount 35 p.c. [count 40 p.c.

Jack chain, brass, single and double, dis-

COPPER.

	Ingot.	Per 100 lb.
Casting, car lots	16 25	16 50

Bars.

Cut lengths, round, ½ to ⅞ in.	21 00	23 00
" round and square,		
Cut 1 to 2 inches	21 00	23 00

Sheet.

Plain, 16 oz., 14x48 and 14x60	....	21 00
Plain, 14 oz.	....	22 00
inned copper sheet	....	24 00
lanished	....	32 00

Braziers' (in sheets).

4x6 ft., 25 to 30 lb. each, per lb.	0 22
" 35 to 45 " "	0 21
" 50-lb. and above "	0 20

BOILER AND T.K. PITTS.

Plain tinned, Spun } 41½ per cent. off list.

BRASS.

Rod and Sheet, 14 to 30 gauge, 10 per cent.	
Sheets, hard-rolled, 2x4	0 23
Tubing, base, per lb.	0 23½

ZINC SPELTER.

Foreign, per 100 lb	7 00	....
Domestic " "	6 75	7 00

ZINC SHEET.

5-cwt. casks	....	7 00
Part casks	....	7 25

LEAD.

Imported Pig, per 100 lb.	3 50	3 75
Bar, " "	....	4 80
Sheets, 2½ lb. sq. ft., by roll	....	0 06½
Sheets, 3 to 6 lb. "	....	0 06

NOTE.—Cut sheets ½c. per lb., extra. Pipe, by the roll, usual weights per yard, lists at 7c. per lb. and 35 p.c 1is. f.o.b. Toronto.

NOTE.—Cut lengths, net price, waste pipe 8-ft lengths, lists at 8c.

ANTIMONY.

Cookson's per lb.	....	0 09½

SHOT.

Common, $6.50 per 100 lb.; chilled, $7.00 per 100 lb.; buck, seal and ball, $7.50. Discount, 15 p.c. Prices are f.o.b. Toronto, Hamilton, Montreal, St. John and Halifax. Terms, 2 p.c. for cash in thirty days.

PLUMBING GOODS.

BATH TUBS.

Zinc	6 00
Copper, discount 20 per cent. off revised list.	

BATHS.

Standard Ideal Enameled.

Plate E I, Fittings extra	1st quality		Special
4 and 4½ ft.	3 in. rolled rim	$18 00	16 00
5 feet	"	19 00	17 00
5½ "	"	20 50	18 50
6 "	"	23 25	21 25
Plate E II			
4½ feet	2½ in. "	16 75	14 75
5 "	2½ " "	17 50	15 50
5½ "	2½ " "	19 00	17 00
Plate 123 E, lavatories	1st quality		8 90
" 123 E, "	2nd "		7 50
" 127 E, "	1st "		5 70
" 127 E, "	2nd "		4 80
" 128 E, "	1st "		5 60
" 128 E, "	2nd "		4 70
" 129 E, "	1st "		5 40
" 129 E, "	2nd "		4 50
Sinks 18 x 30 in flat rim, A quality			2 45
" " " " " B "			2 00

IRON PIPE.

Black pipe—	Per 100 feet.
¼ inch	2 75
⅜ "	2 04
½ "	2 06
¾ "	2 30
⅞ "	2 88
1 "	4 12
1¼ "	5 62
1½ "	6 75
2 "	9 00

Galvanized pipe—	
¼ inch	2 86
⅜ "	2 89
½ "	3 14
¾ "	4 02
1 "	5 77
1¼ "	7 88
1½ "	9 45
2 "	12 60

Malleable Fittings—Canadian discount 35 pe cent. American discount 20 to 25 per cent

Cast Iron Fittings—Standard bushings 50 and 10 and 10 per cent.; headers, 60; flanged unions and lipped, 60 and 5; malleable bushings, 65; nipples, up to 6 in., 75.

PLUMBERS' BRASS GOODS.

Standard Compression work, dis. 60 p.c.
Cushion work, discount 50 per cent.
Fuller work, discount 65 per cent.
6 dozen lots and over of the above, extra discount 10 per cent.
Lever handle Stops and Waste, discount 55 per cent. With in lots of 2 dozen and over an extra discount of 10 per cent.
J.M.T. Globe, Angle and Check Valves, discount 55 per cent.
Standard Globe, Angle and Check Valves, discount 65 per cent.
Kerr's special standard globes and angles, discount 55 per cent.
Kerr's Jenkin disc, copper-alloy disc and heavy standard valves, discount 55 percent.
Kerr's standard brass checks, discount 55 p.c.
Kerr's standard brass disc steam radiator valves, discount 65 per cent.
Kerr's Jenkin disc, copper-alloy disc radiator valves, discount 65 per cent.
Kerr's quick-opening hot-water radiator valves, discount 65 per cent.
Weber's (Kerr) patent straightway gate valves, brass, discount 50 per cent.
Weber's (Kerr) patent straightway gate valves, I. B. B. M., discount 60 and 10 per cent.
J. M. T. Radiator Valves discount 55 per cent.
Standard Radiator Valves, discount 65 per cent.
Patent Quick-Opening Valves, discount 7 and 10 per cent.

No. 1 compression bath cock net	1 75
No. 4 " " "	1 90
No .7 Fuller's " "	2 20
No. 4½ " " "	2 35

Patent Compression Cushion, basin cock, hot and cold, per doz., $31; 5 and 10 per cent. discount.

Patent Compression Cushion, bath cock, No. 2208 2 25

Square head brass cocks, discount 55 per cent
" " iron " " 60 "

Thompson Smoke-test Machine $25.00

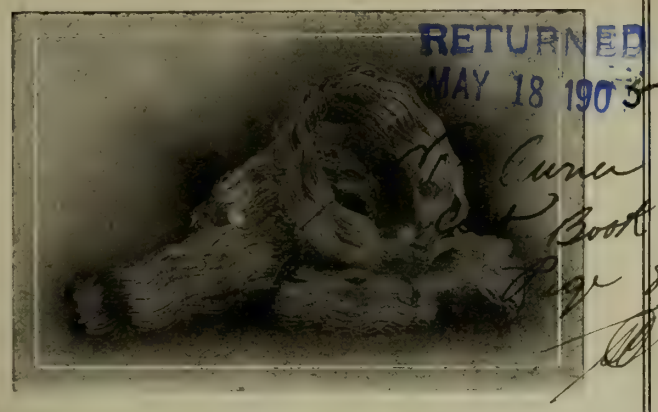
RANGE BOILERS.

Copper, 30 gallon	22 00
" 35 "	24 00
" 40 "	28 00

Discount off copper boilers 15 per cent.

GALVANIZED IRON RANGE BOILERS.

Capacity. Gals.	Standard.	Extra heavy
12	4.50	6.50
18	4.75	6.75
24	4.75	6.75
30	5.00	7.50
35	6.00	8.50
40	7.00	9.50
52	11.00	14.00
66	18.00	20.00
82	21.00	24.00
100	29.00	34.00
120	34.00	40.00
144	47.00	55.00



PROMPT SHIPMENTS

HIGH-GRADE

Coiled Spring and Plain or Barb Wire

From Stock, London or Cleveland

LONDON FENCE MACHINE CO., Ltd.

LONDON | CLEVELAND

SOIL PIPE AND FITTINGS.

Med. and Extra heavy pipe and fittings, dis. 60 per cent.
7 and 8-in. pipe, discount 40 and 5 per cent.

SOLDER.

	Per lb
Bar, half-and-half, guaranteed	0 17½
Wiping	0 15½
Refined	0 16¼

PAINTS AND OILS.

COLORS IN OIL.

1-lb. tins, pure.

Venetian red, per lb.	0 06
Chrome yellow	0 15
Golden ochre	0 08
French "	0 06
Marine black	0 04
Chrome green	0 10
French permanent green	0 13
Signwriters' black	0 15

WHITE LEAD.

	Per 100 lb.
Pure	4 75
No. 1	4 50
No. 2	4 30
No. 3	3 37½
No. 4	3 35
Munro's Select Flake White	4 75
Elephant and Decorators' Pure	4 75
Tiger brand, pure	5 00
Decorators' Special for exterior use	4 25
Monarch	5 00
Decorator's Pure	4 75
Essex Genuine	4 25
Sterling Pure	5 00
Island City Pure	5 00
Ramsay's Pure Lead	4 75 5 00
Ramsay's Exterior	4 50 4 75

RED LEAD.

Genuine, 560 lb. casks, per cwt	$4 50
Genuine, 100 lb. kegs, "	4 75
No. 1, 560 lb. casks, per cwt	4 00 4 25
No. 1, 100 lb. kegs, per cwt	4 75

WHITE ZINC.

Extra Red Seal	0 06 0 08
French V. M.	0 06½ 0 07
Lehigh	0 06 0 06½
Pure	0 07½
No. 1	0 06½
No. 2	0 05½

DRY WHITE LEAD.

Pure, casks	4 50
Pure, kegs	4 75
No. 1, casks	4 00
No. 1, kegs	4 25

PREPARED PAINTS.

In ¼, ½ and 1-gallon tins.

Pure, per gallon	1 20
Second qualities, per gallon	1 00
Barn (in bbls.)	0 60 0 90
The Sherwin-Williams paints	1 35
Canada Paint Co.'s pure	1 25
Toronto Lead & Color Co's pure	1 25
Sanderson Pearcy's pure	1 20
Standard Co.'s "New Era."	1 30
Francis-Frost Co.'s "Ark" B'd	1 25
" British Navy deck	1 50
Henderson & Potts's "Anchor"	1 35
Ramsay's paints, Pure, per gal.	1 20
" Thistle, "	1 00
" Outside, bbls	0 55 0 65
Island City House Paint	1 25
" Floor "	1 25
Sterling House Paint	1 20
" Floor "	1 10
National	1 05

PARIS GREEN.

Petroleum, barrels, per lb.	0 13½
Arsenic, kegs	0 13½
50 and 100-lb. drums	0 14
25-lb. drums	0 14½
1-lb. paper boxes	0 15
½-lb. paper boxes	0 17

Terms—2 per cent. off 30 days, or 90 days

PUTTY.

Bulk in bbls.	1 50
Bulk in less quantity	1 80
Bladders in bbls.	1 65 1 75
Bladders in kegs, boxes or loose	1 90
25-lb. tins	1 80
12½ lb. tins	2 05
Bladders in bulk or tins less than 100 lb.	1 85

VARNISHES.

	In 5-gal. lots.	Per gal.	Net.
Carriage, No. 1		1 50	1 60
Pale durable body		4 10	4 25
" rubbing		2 85	3 20
Gold size, japan		1 50	1 60
No. 1 brown japan		0 85	0 90
Elastic oak			1 50
Furniture, extra		1 10	1 25
" No. 1		0 90	1 00
Hard oil finish		1 35	1 50
Light oil finish		1 60	1 70
Damar		1 75	2 00
Shellac, white		2 40	2 50
" orange		2 30	2 40
Turpentine, brown japan		1 10	1 20
" black japan		1 10	1 20
" " No. 1.		0 85	0 90
Elastilite varnish, 1 gal. can, each			2 00
Granitine floor finish, per gal			2 75
Maple Leaf coach enamels; size 1, size 2, 70c.; size 3, 40c. each.			$1.20;
Sherwin-Williams' kopal varnish, case, from		to 1 gal.,	assorted $2.50.

GLUE.

Common	0 08 0 08½
French medal	0 10 0 14
White, extra	0 18 0 22
Gelatine	
Strip	0 18 0 20
Coopers	0 19 0 20
Huttner	
Ground	0 12 0 16
Cologne, genuine	

HARDWARE.

AMMUNITION.

Cartridges.

B. B. Caps Dominion, 50 and 5 and 25 per cent. American $2.00 per 1000.
C. B. Caps American, $2.60 per 1000.
Rim Fire Pistol, discount 30 p.c., American.
Rim Fire Cartridges, Dominion, 50 and 5 p.c.
Central Fire, Military and Sporting, American, add 20 per cent. to list. B.B. Caps, discount 40 per cent., American.
Central Fire Pistol and Rifle, list net Amer.
Central Fire Cartridges, pistol sizes, Dominion, 30 per cent.
Central Fire Cartridges, Sporting and Military, Dominion, 15 per cent. American 10 per cent. advance on list.
Loaded and empty Shells, "Trap" and "Dominion" grades, 25 per cent. discount. American 20 per cent. discount. Rival and Nitro, 10 per cent. advance on list.
Brass Shot Shells, 55 per cent.
Primers, Dom., 30 per cent.; American, $1.75

Wads.	per lb.
Best thick brown or grey felt wads, in ½-lb. bags	$0 70
Best thick white card wads, in boxes of 500 each, 12 and smaller gauges	0 29
Best thick white card wads, in boxes of 500 each, 10 gauge	0 35
Thin card wads, in boxes of 1,000 each, 12 and smaller gauges	0 20
Thin card wads, in boxes of 1,000 each, 10 gauge	0 25

Chemically prepared black edge grey cloth wads, in boxes of 250 each—	Per M.
11 and smaller gauge	0 60
9 and 10 gauges	0 70
7 and 8 "	0 90
5 and 6 "	1 10

Superior chemically prepared pink edge, best white cloth wads, in boxes of 250 each—	
11 and smaller gauge	1 15
9 and 10 gauges	1 40
7 and 8 "	1 65
5 and 6 "	1 90

ADZES.

Discount 22½ per cent.

ANVILS.

Wright's, 80-lb. and over	0 10½
Hay Budden, 80-lb. and over	0 09½
Brook's, 80-lb. and over	0 11½

APPLE PARERS.

Woodyatt Hudson, per doz., net	4 50

AUGERS.

Gilmour's, discount 60 per cent. off list.

AXES.

Chopping Axes		
Single bit, per doz.	7 00	10 00
Double bit, "	10 00	18 00

Bench Axes, 40 per cent.
Broad Axes, 25 per cent.

Hunters' Axes	5 50	6 00
Boys' Axes	6 25	7 00
Splitting Axes	7 00	12 00
Handled Axes		10 00

AMERICAN AXE AND TOOL CO.

Red Ridge, boys', handled		5 75
" hunters		5 25

Underhill American Bench Axes, 40 p.c.

AXLE GREASE.

Ordinary, per gross	6 00	7 00
Best quality	10 00	12 00

BELLS.

Hand.

Brass, 60 per cent.
Nickel, 55 per cent.

Cow.

American make, discount 63⅔ per cent.
Canadian, discount 45 and 50 per cent.

Door.

Gongs, Sargant's	5 50	8 00
" Peterboro', discount 50 and 10 per cent. off new list.		

Farm.

American, each	1 35	3 00

House.

American, per lb.	0 35	0 40

BELTING.

Extra, 60 per cent.
Standard, 60 and 10 per cent.
No. 1, not wider than 6 in., 60, 10 and 10 per cent.
Agricultural, not wider than 4 in., 75 per cent.

BITS.

Auger.

Gilmour's, discount 60 per cent.
Rockford, discount 50 and 10 per cent.
Jennings' Gen., net list.

Car.

Gilmour's, 47½ per cent.

Expansive.

Clark's, 40 per cent.

Gimlet.

Clark's, per doz	0 65	0 90
Diamond, Shell, per doz.	1 00	1 50
Nail and Spike, per gross	2 25	5 20

BLIND AND BED STAPLES.

All sizes, per lb.	0 07½	0 12

BOLTS AND NUTS

Carriage Bolts, common ($1 list	Per cent.
" " ⅜ and smaller	60 and 10
" " 7-16 and up	55 and 5
" " full sq. ($2.40 list)	60
" " Norway Iron ($3 list)	60
Machine Bolts, all sizes, ⅜ and less	55
Machine Bolts, 7-16 and up	55 and 5
Plough Bolts	55 and 5
Blank Bolts	55 and 5
Bolt Ends	55 and 5
Sleigh Shoe Bolts	70
Coach Screws, cone point	70 and 5

Nuts, square, all sizes, 4c. per lb. off.
Nuts, hexagon, all sizes, 4½c. per lb. off.
Stove Rods per lb., 5½ to 6c.

BOOT CALKS.

Small and medium, ball	per M.	4 25
Small heel	"	4 50

BRIGHT WIRE GOODS

Discount 62½ per cent.

BUTCHERS' CLEAVERS.

German	per doz.	9 00
American	"	12 00 18 00

BUILDING PAPER, ETC

Tarred Felt, per 100 lb.	1 85
Ready roofing, 2-ply, not under 45 lb. per roll	0 90
Ready roofing, 3-ply, not under 65 lb., per roll	1 15
Carpet Felt per ton	45 00
Heavy Straw Sheathing per ton	35 00
Dry Sheathing per roll, 400 sq. ft.	0 40
Tar " " 400 "	0 50
Dry Fibre " 400 "	0 40
Tarred Fibre " 400 "	0 50
O. K. & I. X. L. " 400 "	0 70
Resin-sized " 400 "	0 45
Oiled Sheathing " 600 "	1 00
Oiled " " 400 "	0 70
Roof Coating, in barrels per gal.	0 17
Roof small packages "	0 25
Refined Tar per barrel	5 00
Coal Tar "	4 00
Coal Tar, less than barrels per gal.	0 15
Roofing Pitch per 100 lb.	0 90
Slater's felt per roll	0 60

BULL RINGS.

Copper, $1.30 for 2½-inch, and $1.70

BUTTS.

Wrought Brass, net revised list.

Cast Iron.

Loose Pin, discount 60 per cent

Wrought Steel.

Fast Joint, discount 70 to 70 and 5 per cent.
Loose Pin, discount 70 to 70 and 5 per cent.

CARPET STRETCHERS.

American	per doz.	1 00 1 50
Bullard's	"	6 50

CASTORS.

Bed, new list, discount 55 to 57½ per cent.
Plate, discount 52½ to 57½ per cent.

CATTLE LEADERS.

Nos. 32 and 33	per gross	7 50 8 50

CHALK.

Carpenters' Colored, per gross	0 45	0 75
White lump	per cwt.	0 60 0 65
Red		0 05 0 06
Crayon	per gross	0 14 0 18

CHISELS.

Socket, Framing and Firmer.

Broad's, discount 70 and 5 per cent.
Warnock's, discount 70 per cent.
P. S. & W. Extra, discount 60 and 10 per cent.

CLOTHES REELS.

Davis Clothes Reels, dis. 40 per cent

PLANE IRONS.

English	per doz.	2 00 5 00

PLIERS AND NIPPERS.

Button's genuine, per doz. pairs, discount 37½ to 40 per cent.

Button's imitation	per doz.	5 00 9 00
man	"	0 60 0 60

PRESSED SPIKES.

Discount 20 per cent.

PULLEYS.

Hothouse	per doz.	0 55 1 00
Axle	"	0 22 0 33
Screw	"	0 22 1 00
Awning	"	0 35 2 50

PUMPS.

Canadian cistern		1 80 3 60
Canadian pitcher spout		1 40 2 10

Paterson's Wire Edged Ready Roofing

Fire-proof and Sanitary:
Easy to put on:
Hard to wear out:
Don't cost much.

You have hundreds of Customers who require that kind of Roofing Material.

The Paterson Mfg. Co., Limited

Toronto and Montreal.

CONDUCTOR PIPE.

Plain or Corrugated.

2-inch	per 100 feet	3 00
3 "	" "	4 00
4 "	" "	5 25
5 "	" "	6 75
6 "	" "	9 00

CRADLES, GRAIN.

Canadian, discount 20 to 25 per cent.

CROSSCUT SAW HANDLES.

S. & D., No. 3	per pair	0 15
S. & D., " 5	"	0 22½
S. & D., " 6	"	0 15
Boynton pattern	"	0 20

DOOR SPRINGS.

Torrey's Rod	per doz.	....	1 75
Coil, 9 to 11 in.	"	0 95	1 65
English	"	2 00	4 00

DRAW KNIVES.

Coach and Wagon, discount 50 per cent.
Carpenters' discount 70 per cent.

DRILLS.

Hand and Breast.

Millar's Falls, per doz., net list.

DRILL BITS.

Morse, discount 37½ to 40 per cent.
Standard, discount 50 and 5 to 55 per cent.

FAUCETS.

Common, cork-lined, discount 35 per cent.

EAVETROUGHS.

10-inch per 100 ft. 10 00

ELBOWS (stovepipe.)

5 and 6-inch, common	per doz.	1 20
7-inch	"	1 35

Polished, 15c. per dozen extra.

ESCUTCHEONS.

Discount 50 and 10 per cent., new list

ESCUTCHEON PINS.

Iron, discount 40 per cent.

FACTORY MILK CANS.

Discount off revised list, 40 per cent.

FILES AND RASPS.

Great Western	70 and 10 per cent.
Arcade	70 " 10 "
Kearney & Foot	70 " 10 "
Disston's	70 " 10 "
American	70 " 10 "
J. Barton Smith	70 " 10 "
McClellan	70 " 10 "
Eagle	70 " 10 "
Nicholson, 60 and 10 to 60, 10 and 5	"
Royal	80 "
Globe	70 to 75 "

Black Diamond, 60 and 10 to 60, 10 and 5 per cent.
Jowitt's, English list, 25 to 27½ per cent.
Nicholson File Co.'s "Simplicity" file handle, per gross 85c. to $1.50

GLASS.

Window. Box Price.

Size United Inches.	Star Per 50 ft.	Star Per 100 ft.	D. Diamond Per 50 ft.	D. Diamond Per 100 ft.
Under 26	....	3 80	....	5 06
26 to 40	....	4 00	....	5 44
41 to 50	....	4 50	....	6 56
51 to 60	....	4 75	....	7 50
61 to 70	....	5 00	....	8 62
71 to 80	....	5 30	....	9 38
81 to 85	....	....	....	10 75
86 to 90	....	....	....	12 30
91 to 95	....	....	....	15 00
96 to 100	....	....	....	18 00
96 to 100	....	....	....	18 00

GAUGES.

Marking, Mortise, Etc.

Stanley's, discount 50 to 55 per cent.

Wire Gauges.

Winn's, Nos. 26 to 33 ....each 1 65 2 40

GILLETT'S POWDERED LYE.

1-case, $3.70; 3-case, $3.60; 5-case and over, $3.50.

HALTERS.

Rope, ¾-inch	per gross	....	9 00
Rope, ⅞ "	"	....	12 00
Rope, 1 to 1¼-inch	"	....	14 00
Leather, 1-inch	per doz.	....	4 00
Leather, 1¼ "	"	....	5 20
Web	"	....	2 45

HAMMERS.

Nail.

Maydole's, discount 5 to 10 per cent. Canadian discount 25 to 27½ per cent.

Tack.

Magnetic	per doz.	1 10	1 20

Sledge.

Canadian	per lb.	0 07	0 08½

Ball Pean.

English and Canadian, per lb.		22	0 25

HANDLES.

Axe, 2nd growth, per doz. net		3 00	4 00
Store door	per doz.	1 00	1 50

Fork.

C. & B., discount 40 per cent., revised list.

Hoe.

C. & B., discount 40 per cent., revised list.

Saw.

American	per doz	1 00	1 25

Plane.

American	per gross	3 15	3 75

Hammer and Hatchet.

Canadian, discount 40 per cent.

HANGERS.

	doz.	pairs.
Steel barn door	8 00	10 00
Stearns, 4-inch	....	4 50
" 5-inch	....	6 00
Zenith	....	9 00
Lane's covered—		
No. 11, 5-foot run	....	8 40
No. 11½, 10-foot run	....	10 80
No. 12, 10-foot run	....	12 60
No. 14, 15-foot run	....	21 00
Steel, covered	4 00	11 00
" track, 1 x 3-16 in(100 ft)	....	3 75
" " 1¼ x 3-16 in(100 ft)	....	4 75

HARVEST TOOLS.

Discount 60 per cent.
S. & D. lawn rakes, Dunn's, 40 off.
" sidewalk and stable scrapers, 40 off.
" Maple Leaf and Premiums saw sets, 40 off.
" saw swages, 40 off.

HATCHETS.

Canadian, discount 40 to 42½ per cent.

Shingle, Red Ridge 1, per doz		4 40
" 2, "		4 85
Barrel, Underhill		5 00

HAT ENAMEL.

Henderson & Potts' "Anchor Brand"

HINGES.

Blind, Parker's, discount 60 per cent.

Heavy T and strap, 4-in., per lb	0 06½
" " 5-in., "	0 06½
" " 6-in., "	0 06
" " 8-in., "	0 05¾
" " 10-in., "	0 05½

Light T and strap, discount 65 and 5 per cent.

Screw hook and hinge—			
6 to 10 in.	per 100 lb.	....	4 50
12 in. up	"	....	3 25
Spring, No. 20, per gro. pairs		....	10 80

Spring, Woodyatt pattern, per gro., No. 5, $17.50; No. 10, $18; No. 20, $10.80; No. 120, $20; No. 51, $10; No. 50, $27.50.

HOES.

Garden, Mortar, etc., discount 60 per cent.

Planter	per doz.	4 00	4 50

HOLLOW WARE.

Tinned cast, 35 per cent.

HOOKS.

Cast Iron.

Bird cage	per doz.	0 50	1 10
Clothes line, No. 61	"	0 00	0 70
Harness	"	0 60	12 00
Hat and coat	per gro.	1 10	10 00
Chandelier	per doz.	0 50	1 00

Wrought Iron.

Wrought hooks and staples Canadian discount 60 per cent.

Wire.

Hat and coat, discount 60 per cent.

Belt	per 1,000	....	0 60

Screw, bright, discount 62½ per cent.

HORSE NAILS.

"P.B." Brand, 55 to 60 per cent.
'C' brand, 40, 10 and 7½ per cent. off list { Oval
M.R.M. Co. brand, 55 per cent. { head
"Monarch," 50 and 7½ per cent.
"Peerless" 50 per cent. dis.

HORSESHOES.

F.O.B. Montrea

"P.B." brand, new pattern, base	$3 50
M.R.M.'Co. brand, base	3 65

Add 15c. Toronto, Hamilton, Guelph.

JAPANNED WARE.

50 per cent.

PICKS.

Star	per doz.	3 00	3 25

KETTLES.

Brass spun 7½ per cent. discount off new list.

Copper	per lb.	0 30	0 50

American, 60 and 10 to 65 and 5 per cent.

KEYS.

Lock, Canadian dis. 40 to 40 and 10 per cent.
Cabinet trunk and padlock
American per gross 0 60

KNOBS.

Door, japanned and N.P., per doz		1 50	2 50
Bronze, Berlin	per doz.	2 75	3 25
Bronze, Genuine	"	6 00	9 00
Shutter, porcelain, F. & L. screw	per gross	1 30	2 00
White door knobs	per doz.	....	2 00

HAY KNIVES.

Net prices.

LAMP WICKS.

Discount, 60 per cent.

LADDERS, EXTENSION.

Waggoner Extension Ladders, dis. 40 per cent.

LANTERNS.

Cold Blast	per doz.	4 50
No. 3, "Wright's"	"	8 50
Ordinary, with O burner	"	4 00
Dashboard, cold blast	"	9 00
No. 0	"	5 75

Japanning, 50c. per doz. extra.

LEMON SQUEEZERS.

Porcelain lined	per doz.	2 20	5 60
Galvanized	"	1 87	3 85
King, wood	"	2 75	2 90
King, glass	"	4 00	4 50
All glass	"	0 50	0 90

LAWN MOWERS FOR 1905.

Woodyatt, 10½-in., 14-in. cut	$ 8 50 to	$11 00
Star, 9 -in.	" 6 00 to	6 50
Daisy, 8 -in.	" 5 25 to	5 75
Philadelphia, 7½-in.	" 6 00 to	7 50
Woodyatt, 10½-in., ball bearing	13 25 to	18 00
Grass Boxes	1 75 to	2 00
King Edw'd 12-in., 14-in. cut	9 00 to	10 00

Horse Lawn Mowers, "Special."

Discount, 50 per cent., with freight concessions in quantity shipments.

Maxwell & Sons

10½-in. high wheel	0	10 00
9-in.	5 50	6 25
8-in.	4 90	5 50

Discount 50 per cent.

LOCKS.

Canadian, 50 to 50 and 10 per cent
Russell & Erwin, steel rim ...per doz. 2 25

Cabinet.

Eagle, discount 30 per cent.

Padlocks.

English and Am.	per doz. 0 50	6 00
Eagle, discount 20 to 25 per cent.		

MACHINE SCREWS.

Iron and Brass.

Flat head, discount 25 per cent.
Round head, discount 20 per cent.

MALLETS.

Tinsmiths'	per doz.	1 25	1 50
Carpenters', hickory,	"	1 25	3 75
Lignum Vitae	"	3 85	5 00
Caulking, each		0 60	2 00

MATTOCKS.

Canadian	per doz.	5 50	6 00

MEAT CUTTERS.

American, discoun 3½ per cent.
German, 15 per cen
Gem .....each 1 15

MILK CAN TRIMMINGS.

Discount 25 per cent.

NAILS.

	Cut.	Wire.
2d	3 40	3 25
3d	3 05	2 90
4 and 5d	2 80	2 65
6 and 7d	2 70	2 55
8 and 9d	2 55	2 40
10 and 12d	2 50	2 35
16 and 20d	2 45	2 30
30, 40, 50 and 60d (base)	2 40	2 25

F.o.b. Toronto.
Steel cut nails 10c. extra.
Miscellaneous wire nails, discount 75 per cent.
Coopers' nails, discount 30 per cent.

NAIL PULLERS.

German and American	85	2 50
No. 1	85	
No 1573	75	

NAIL SETS.

Square, round and octagon, per gross	3 38
Diamond	1 00

POULTRY NETTING.

2-in. Mesh, 19 w.g., dis. 60 per cent.
2-in. Mesh 16 w.g. 60 per cent.
Smaller than 2 in. dis. 55 per cent.

OAKUM.

U. S. Navy	per 100 lb.	....	6 75
Plumbers	"	....	3 00

OILERS.

McClary's Model galvanized oil can, with pump, 5 gallon, per dozen	10 00

Davidson oilers, discount 40 per cent.
Zinc and tin, discount 50, 50 and 10 per cent.

Copper	per doz.	1 25	3 50
Brass	"	1 50	3 50

Malleable, discount 25 per cent

GALVANIZED PAILS.

Dufferin pattern pails, discount 47½ per cent
Flaring pattern, discount 47½ per cent.
Galvanized washtubs, discount 47½ per cent

PIECED WARE.

Discount 40 per cent off list, June, 1899.
10-qt. flaring sap buckets, discount 40 per cent
6, 10 and 14-qt. flaring pails dis. 40 per cent.
Creamer cans, discount 40 per cent.

PICKS.

Per dozen		....	6 00	9 00

PICTURE NAILS.

Porcelain head	per gross	1 35	1 50
Brass head	"	0 40	1 00

PICTURE WIRE.

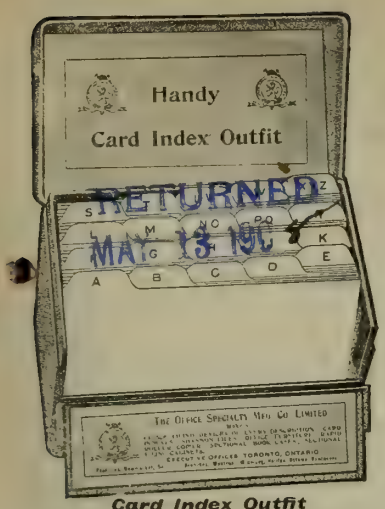
Tin and gilt, discount 75 per cent.

PINE TAR.

½ pint in tins	per gross	....	7 80
1 " "	"	....	9 60

PLANES.

Wood bench, Canadian discount 40 per cent.
American discount 50 per cent.
Wood, fancy Canadian or American 37½ to 40 per cent



Card Index Outfit

A BARGAIN IN CARD SYSTEM
A Brain Box for $1.00

HERE'S the Offer:

1 Cloth Box
150 5 x 3 Linen Cards
1 set Daily Guides, 1-31
1 set Monthly Guides, Jan.-Dec.
or 1 set Alphabetical Guides, A. to Z.

All for A DOLLAR Prepaid



RETURNED MAY 13 19

Just to demonstrate what a wonderful **Time, Trouble and Thought** Saver our Card System is, we make you this offer. Money refunded if it doesn't satisfy you.
There is nothing in business furniture we do not make.
School Desks and Metal Work a specialty. **Call, Phone or Write for Catalogue.**

THE OFFICE SPECIALTY MFG. CO., Limited

Factories, NEWMARKET. **97-105 Wellington St. West, (near York), TORONTO**

PUNCHES.

Saddler's ..... per doz.	1 00	1 85
Conductor's ..... "	3 00	15 00
Finners', solid ..... per set	....	0 72
" hollow ..... per inch	....	1 00

RAKES.

Wood ..... per doz. net 1 20 up

RAZORS.

	per doz.	
Elliot's	4 00	18 00
Geo. Butler's & Co.'s	4 00	18 00
Boker's	7 50	11
" King Cutter	13 50	18 50
Wade & Butcher's	3 60	10 00
Carbo Magnetic	....	15 00
Griffon Barber's Favorite	....	10 75
Griffon No. 65	....	13 00
Griffon Safety Razors	....	13 50
Griffon Stropping Machines	....	13 50
Lewis Bros "Klean Kutter"	8 50	10 50
Hindoo	10 50	14 00
Orgsteom's Swedish	3 50	10 00
Henckel's	7 50	20 00

Clauss, 50 and 10 per cent.
Clauss Strops, 50 and 10 per cent.

REGISTERS.

Discount 40 per cent.

RIVETS AND BURRS.

New List.

Iron Rivets, black and tinned, 60 and 10 and 10 per cent.
Iron Burrs, discount 60 and 10 and 10 p.c.
Copper Rivets, with usual proportion burrs, 45 per cent.
Copper Burrs only, discount 30 and 10 per cent.
Extras on Tinned or Coppered Rivets, ½-lb. packages 1c. per lb.; ¼-lb. packages 2c. lb.

RIVET SETS.

Canadian, discount 35 to 37½ per cent.

ROPE, ETC.

Sisal		0 11
Pure Manilla		0 14½
"British" Manilla		0 11
Cotton, 3-16 inch and larger	0 21	0 23
" 5-32 inch	0 25	0 27
" ⅛ inch	0 25	0 28
Russia Deep Sea		0 16
Jute		0 09
Lath Yarn, single		0 10
" double		0 10½
Sisal bed cord, 48 feet ..... per doz.		0 65
" " 60 feet ..... "		0 80
" " 72 feet ..... "		0 95

RULES.

Boxwood, discount 70 per cent.
Ivory, discount 20 to 25 per cent.

SAD IRONS.

Mrs. Potts, No. 55, polished ..... per set	0 75
" No. 50, nickle-plated, "	0 80
Common, plain	4 50
" plated	5 50

SAND AND EMERY PAPER.

B. & A. sand, discount, 40 and 5 per cent
Emery, discount 40 per cent.
Garnet (Rurton's) 5 to 10 per cent. advance on list.

SAP SPOUTS.

Bronzed iron with hooks ..... per 1,000	7 50	
"Eureka" tinned steel, hooks "	8 00	

SAWS.

Hand, Disston's, discount 12½ per cent
S. & D., discount 40 per cent.
Crosscut, Disston's ..... per foot 035 0 55
S. & D., discount 35 per cent. on Nos. 2 and 3.

Hack, complete ..... each	0 75	2 75
" frame only ..... each	0 50	1 25

S. & D. solid tooth circular shingle, concave and band, discount 50 per cent.
" mill and ice, drag, discount 30 per cent
" cross-cut, discount 35 per cent.
" hand saws, butcher, disc't 40 per cent
" compass, pruning and back, discount 45 per cent.
" buck, New Century $6 25
" " No. 1 Maple Leaf 5 25
" " Happy Medium 4 25
" " Watch Spring 4 25
" " common frame 4 00

SASH WEIGHTS.

Sectional ..... per 100 lb.	2 00	2 25
Solid ..... "	1 50	1 75

SASH CORD.

Per lb	0 28	0 30

SAW SETS.

	per doz.
Lincoln and Whiting	4 75
Hand Sets, Perfect	4 00
X-Cut Sets, "	7 50

SCALES.

Gurney Standard, 40 per cent.
Gurney Champion, 50 per cent.
Burrow, Stewart & Milne—
Imperial Standard, discount 40 per cent.
Weigh Beams, discount 35 per cent.
Champion Scales, discount 50 per cent.
Fairbanks standard, discount 35 per cent.
" Dominion, discount 55 per cent.
" Richelieu, discount 55 per cent.
Warren's new Standard, discount 40 per cent.
" " Champion, discount 50 per cent.
" Weighbeams, discount 35 per cent.

SCREW DRIVERS.

Sargent's ..... per doz.	0 65	1 00

SCREEN DOORS.

Common doors, 2 or 3 panel, walnut stained, 4-in. style ..... per doz.	6 50
Common doors, 2 or 3 panel, yellow and green stained, 4-in. style ..... per doz.	6 75
Common doors, 2 or 3 panel, in natural colors, oil finish ..... per doz.	8 75

3-in. style 20c. per dozen less.

SCREWS.

Wood, F. H., bright and steel, discount 87½ per cent.
Wood, R. H., bright, dis. 82½ per cent.
" F. H., brass, dis. 80 per cent.
" R. H., " dis. 75 per cent.
" F. H., bronze, dis. 75 per cent.
" R. H., " dis. 70 per cent.
Drive Screws, dis. 87½ per cent.

Bench, wood ..... per doz.	3 25	4 00
" iron ..... "	4 25	5 00

Set, case hardened, dis. 60 per cent.
Square Cap, dis. 50 and 5 per cent.
Hexagon Cap, dis. 45 per cent.

SCYTHES.

Per doz. net	6 00	9 00

SCYTHE SNATHS.

Canadian, discount 40 per cent.

SHEARS.

Clauss, nickel, discount 80 per cent.
Clauss, Japan, discount 67½ per cent.
Clauss, tailors, discount 40 per cent.
Seymour's, discount 50 and 10 per cent.

SHOVELS AND SPADES.

Canadian, discount 45 per cent.

SINKS.

Cast iron, 16 x 24	0 85
" 18 x 30	1 00
" 18 x 36	1 40

SNAPS.

Harness, German, discount 25 per cent.

Lock, Andrews'	4 50	11 50

SOLDERING IRONS.

1, 1½-lb. ..... per lb.	....	0 37
2-lb. or over ..... "	....	0 34

SQUARES.

Iron, No. 492 ..... per doz.	1 90	2 25
" No. 493 ..... "	2 40	2 55
" No. 494 ..... "	3 25	3 40

Steel, discount 60 and 5 to 65 per cent.
Try and Bevel, discount 50 to 52½ per cent.

STAMPED WARE.

Plain, discount 75 and 12½ per cent. off revised list.
Retinned, discount 75 per cent. off revised list

STAPLES.

Galvanized	....	3 00
Plain	....	2 80

Coopers', discount 45 per cent.
Poultry netting staples, discount 40 per cent.

STOCKS AND DIES.

American discount 25 per cent.

STONE.

Washita ..... per lb.	0 28	0 60
Hindostan ..... "	0 06	0 07
" slip ..... "	0 09	0 09
Labrador ..... "	....	0 13
" Axe ..... "	....	0 15
Turkey ..... "	....	0 50
Arkansas ..... "	....	1 50
Water-of-Ayr ..... "	....	0 10
Scythe ..... per gross	3 50	5 00
Grind, 40 to 200 lb., per ton	....	25 00
" under 40 lb., "	....	28 00
" 200 lb. and over	....	31 00

STOVEPIPES.

5 and 6 inch, per 100 lengths	....	7 00
7 inch ..... " "	....	7 50

TACKS, BRADS, ETC.

Carpet tacks, blued	80 and 15
" " tinned	80 and 20
" " (in kegs)	40
Cut tacks, blued, in dozens only	80
" ¼ weights	60
Swedes cut tacks, blued and tinned—	
In bulk	80 and 10
In dozens	75
Swedes, upholsterers', bulk 85,	12½ and 12½
" brush, blued and tinned bulk	70
Swedes, gimp, blued, tinned and japanned	75 and 12½
Zinc tacks	35
Leather carpet tacks	55
Copper tacks	50
Copper nails	52½
Trunk nails, black	65 and 5
Trunk nails, tinned	65 and 10
Clout nails, blued	65 and 5
Chair nails	35
Patent brads	40
Fine finishing	40
Lining tacks, in papers	10
" " in bulk	15
" " solid heads, in bulk	75
Saddle nails, in papers	10
" " in bulk	15
Tufting buttons, 22 line, in dozens only	60
Zinc glaziers' points	5
Double pointed tacks, papers ..	90 and 10
" " " bulk	40
Clinch and duck rivets	45

TAPE LINES.

English, ass skin ..... per doz.	2 75	5 00
English, Patent Leather	5 50	9 75
Chesterman's ..... each	0 90	2 85
" steel ..... each	0 80	3 00

TINNERS' SNIPS.

Per doz	3 00	15 00

Clauss, discount 35 per cent.

THERMOMETERS.

Tin case and dairy, 75 to 75 and 10 per cent.

TRAPS (steel.)

Game, Newhouse, discount 25 per cent.
Game, H. & N., P. S. & W., 45 and 5 per cent.
Game, steel, 60 and 5 per cent.

TROWELS.

Disston's, discount 10 per cent.		
German ..... per doz.	4 75	6 00

S. & D., discount 35 per cent.

TWINES.

Bag, Russian ..... per lb.	....	0 27
Wrapping, cotton, 3-ply	....	0 24
" " 4-ply	....	0 27
Mattress ..... per lb.	0 33	0 45
Staging ..... "	0 27	0 35

VISES.

Wright's	0 13½
Brook's	0 12½
Pipe Vise, Hinge, No. 1	3 50
" " " No. 2	5 50
Saw Vise	4 50 9 00

Columbia Hardware Co.
Blacksmiths' (discount) 60 per cent.
" parallel (discount) 45 per cent

ENAMELLED WARE.

White, Princess, Turquoise, Blue and White discount 50 per cent.
Diamond, Famous, Premier, discount 50 and 10 per cent.
Granite or Pearl, Imperial, Crescent, discount 50, 10 and 10 per cent.
Premier steel ware, 40 per cent.
"Star" decorated steel and decorated whit 25 per cent.

WIRE.

Smooth Steel Wire.

No. 0-9 gauge	$2 15
10 "	6c. extra.
11 "	12c. "
12 "	20c. "
13 "	30c. "
14 "	40c "
15 "	55c. "
16 "	70c. "

Add 60c. for coppering and $2 for tinning.
Extra net per 100 lb.—Oiled wire 10c. spring wire $1.25, special hay baling wire 30c. best steel wire 75c., bright soft drawn 15c., charcoal (extra quality) $1.25, packed in casks or cases 15c., bagging and papering 10c., 50 and 100-lb. bundles 10c., in 25-lb. bundles 15c., in 5 and 10-lb. bundles 25c., in 1-lb. hanks, 50c., in ½-lb. hanks 75c., in ¼-lb. hanks $1.
Fine Steel Wire, discount 27½ per cent. List of extras: In 100-lb. lots: No. 17, $5—No. 18, $5.50—No. 19, $6—No. 20, $6.65—No. 21, $7—No. 22, $7.30—No 23, $7,65—No. 24, $8—No. 25, $9—No. 26, $9.50—No. 27, $10—No. 28, $11—No. 29, $12—No. 30, $13—No. 31, $14—No. 32, $15—No. 33, $16—No. 34, $17. Extras net—tinned wire, Nos. 17-25, $2—Nos. 26-31, $4—Nos. 32-34, $6. Coppered, 5c.—oiling, 10c.—in 25-lb. bundles, 15c.—in 5 and 10-lb. bundles, 25c.—in 1-lb. hanks, 25c.—in ½-lb. hanks, 38c.—in ¼-lb. hanks, 50c.—packed in casks or cases, 15c.—bagging or papering, 10c.
Brass wire, discount 60 per cent. off the list.
Copper wire, discount 60 per cent. net cash 30 days, f.o.b factory.
Galvanized wire, per 100 lb.—Nos. 4 and 5, $3.70 to $3.70—Nos. 6, 7, 8, $3.15 to $3.15—No. 9, $2.55 — No. 10, $3.20 to $3.20—No. 11, $3.25 to $3 25 — No. 12, $2.65—No. 13, $2.75—No. 14. $3.75 to $3.75—No 15, $4.30—No. 16. $4.30. Base sizes, Nos. 6 to 9, $2.37½ f.o.b. Cleveland. In carlots 12½c. less.
Clothes Line Wire, 7 wire solid line, No. 17. $4.90; No. 18, $3.00; No. 19, 2.70; 6 wire solid line, No. 17, $4.45; No. 18, $2.80; No. 19, $2.50. All prices per 1000 ft. measure. F.o.b. Hamilton, Toronto, Montreal.

WIRE FENCING.

Galvanized barb	2 50	2 75
Galvanized, plain twist	2 50	2 75

Galvanized barb, f.o.b. Cleveland, $2 30 for small lots and $2 20 for carlots.

COILED SPRING WIRE.

HighCarbon, No. 9	$2 70
" No. 11	3 35
" No. 12	2 95

WIRE CLOTH.

Painted Screen, per 100 sq. ft., net .. 1 50
Terms, 2 per cent. off 30 days.

WASHING MACHINES.

Round, re-acting per doz.	56 00
Square "	59 00
Eclipse, per doz	48 00
Dowswell "	36 00
New Century, per doz	72 00
Connor Improved	33 00
Daisy	48 00

WRINGERS.

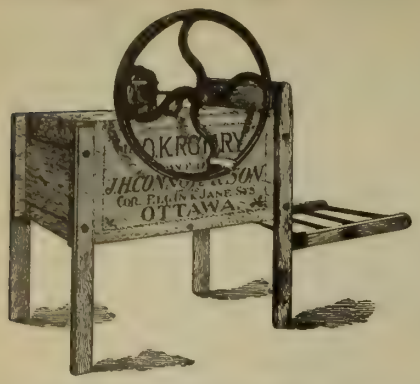
Leader ..... per doz.	30 00 33 00
Royal Canadian ..... "	.... 24 00
Royal American ..... "	.... 24 00
Sampson ..... "	.... 24 00
Lightning ..... "	.... 27 00

Terms, 4 months, or 3 per cent. 30 days.

WROUGHT IRON WASHERS.

Canadian make discount 40 per cent.

CONNOR'S O. K. ROTARY WASHER.



No experiment, but a trade winner. Dealers who handle this washer say they sell easier than any other. Write for our catalogue and price list.

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To the Wholesale Trade.

We are now fully equipped and prepared to give quotations for the manufacture of any

Woodenware Specialties

OUR HARDWARE SHELF BOX is selling itself. Write for prices.

...THE...

Bennett Manufacturing Co.

PICKERING, ONT.

A Good Aim

In manufacturing and making a specialty of Boys' Rifles we have always aimed to put as much worth proportionately into the firearms for boys as into the firearms for men. Consequently

THE HAMILTON RIFLE

(the boys' favorite) has gone to the fore and gone there to **stay**. **Model No. 15** and **Model No. 19** are ideal firearms for boys. They are the lowest priced, well-made Boys' Rifle on the market. This is so because **HAMILTON RIFLES** are the outcome of a combination of favorable circumstances, the salient ones of which are the employment of new principles and the adoption of new patterns. Stock up **HAMILTON RIFLES.**

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Dept. 71. **PLYMOUTH, Mich.**

INDEX TO ADVERTISERS.

A

Accountants and Auditors 12
Acme Can Works .....inside back cover
Acme Lathe & Products Co..... 53
American Shearer Mfg. Co..... 23
American Steel and Wire Co 11
Anglo-Canadian Supply Co..... 54
Atkins, E. C., & Co..... 61
Armstrong Bros 51
Atlas Mfg. Co..... 62

B

Barnett, G. & H., Co....outside back cover
Bartlett, Wm., & Son 45, 58
Bayliss, Jones & Bayliss..... 1
Bell Telephone Co.. 64
Bennett Mfg. Co..... 70
Birkett, Thos., & Son Co. 1
Boss Machine Co..... 8
Bosson Bros..... 62
Bradstreet's..... 72
Brantford Cordage Co 72
British America Assurance Co..... 65

C

Canada Brass Rolling Mills 27
Canada Foundry Co. 51
Canada Iron Furnace Co.. 39
Canada Metal Co 29
Canada Paint Co..... 52
Canada Paper Co 23
Canadian Bank of Commerce..... 65
Canadian Fairbanks Co..... 4
Canadian Heating & Ventilating Co... 55
Canadian Rubber Co 14
Canadian Sewer Pipe Co..... 62
Canadian Steel and Wire Co..... 11
Clauss Shear Co 51
Concrete Block Machine Co..... 62
Confederation Life Association..... 65
Connor, J. H., & Sons..... 70
Consumers' Cordage Co..... 13
Covert Mfg. Co 6
Crain, Rolla L., Co..... 49
Cutts, C. M. & Co..... 43

D

Dana Mfg. Co..... 7
Davidson, Thos., Mfg. Co..... 2
Dennis Wire and Iron Co..... 51
Deseronto Iron Co..... 39
Dods, P. D., & Co..... 51
Dorken Bros. ....outside front cover, 6, 49
Dowswell Mfg. Co..... 53

E

Eclipse Mfg. Co..... 45
Educational Dept 12
Enterprise Mfg. Co., of Akron, Ohio... 49
Erie Specialty Co..... 72

F

Falkiner, H. F..... 54
Ferrosteel Co..... 28
Frothingham & Workman..... 9

G

Gibb, Alexander..... 22
Gies, Philip..... 23
Gilbertson, W., & Co..... 53
Glauber Brass Co.... 23
Greening, B., Wire Co..... 7
Grose, Walter..... 43
Grove Chemical Co 53
Gurney Foundry Co 27, 55
Gurney, Tilden Co..... 57
Gutta Percha and Rubber Mfg. Co....
outside back cover

H

Ham & Nott..... 6
Hamilton Cotton Co..... 46
Hamilton Rifle Co..... 70
Hankin, F..... 47
Hanover Portland Cement Co..... 58
Harrington & Richardson Arms Co 47
Heinisch, R., Sons Co..... 10
Henderson, J. A..... 47
Henderson & Potts Co 50
Hobbs Mfg. Co..... 61
Hotel Directory..... 64
Howland, H. S., Sons & Co..... 19
Hyde, F. & Co..... 39

I

Imperial Varnish and Color Co..... 48
Ironside, Son & Co 47

J

Jackson, C. F., & Co..... 39
Jamieson, R. C., & Co 49
Jardine, A. B., & Co..... 23
Jenking, A. C.. 58
Johnson's, Iver, Arms and Cycle Works 18
Johnston, Rd., Clapham & Morris. 6

K

Kemp Mfg. Co 14
Kerr Engine Co..... 22

L

Lamplough, F. W., & Co..... 45
Legal Cards..... 12
Leslie, A. C., & Co..... 39
Lewis Bros. & Co. 3
Lewis, Rice, & Son ..... inside front cover
Lockerby & McComb..... 57
London Fence Machine Co..... 67
London Rolling Mill Co..inside back cover
Loughead, J. S., & Son 6
Lufkin Rule Co.....inside back cover
Luxfer Prism Co 61
Lysaght, John. .....outside front cover

M

Mackay, J. M..... 6
Mackenzie Bros..... 43
Maple Leaf Harvest Tool Co 5
Mast, J. M., Mfg. Co..... 10
Maxwell, D., & Sons..... 6
Metal Shingle and Siding Co..... 38
Metallic Roofing Co 41
Metropolitan Bank..... 65
Metropolitan Business College 12
Morton, B. K., & Co..... 39
Morrison, James, Brass Mfg. Co..... 21
Morrow, John, Machine Screw Co..... 43
Munderloh & Co..... 28

Mc

McArthur, Alex., & Co 66
McCaskill, Dougall & Co..... 53
McClary Mfg. Co 30
McDougall, R., Co 39
McGregor-Banwell Fence Co 54

N

Naturo Co..... 25
Newman, W., & Sons 58
Nicklin, John, & Co..... 11
North Bros. Mfg. Co..... 1
North West Machinery & Iron Co.... 22
Nova Scotia Steel and Coal Co..... 39

O

Oakey, John, & Sons..... 54
Office Specialty Mfg. Co..... 69
Oneida Community 9
Ontario Tack Co..... 16
Ontario Wind Engine and Pump Co .. 46
O-So-Ezy Mfg. Co..... 58
Owen Sound Wire Fence Co..... 7

P

Page-Hersey Iron and Tube Co 23
Page Wire Fence Co..... 28
Paterson Mfg. Co..... 68
Peck Rolling Mills 30
Pedlar People..... 36, 37, 57
Penberthy Injector Co..... 25
Phillips, Chas. D 58

R

Ramsay, A., & Son Co 10, 25
Ross, J. A..... 10
Round, John, & Son.... 8
Royal Paper Mills Co....inside back cover
Russell & Erwin Mfg. Co..... 9

S

Sadler & Haworth .....outside back cover
Samuel, M. & L., Benjamin, & Co..... 2
Sanderson-Harold Co..... 27
Saunders, Franklin & Co 46
Scott, Greenwood & Co..... 51
Seymour, Henry T., Shear Co..... 10
Sharratt & Newth..... 10
Shaw, A., & Son..... 10
Sherwin-Williams Co..... 17
Silica Barytic Stone Co..... 62
Skedden Brush Co..... 49
Smith & Hemenway Co..... 23
Solarine Metal Polish..... 54
Standard Ideal Sanitary Co..... 21
Standard Paint and Varnish Works... 51
Stanley Works 59
St. Margaret's College..... 12
Stephens, G. F., & Co..... 42

T

Tarbox Bros..... 47
Taylor-Forbes Co. outside front cover, 52
Telephone City Stoves..... .. 55
Thompson, B. & S. H., Co.....
outside back cover
Thorne, R. E..... 22
Toronto Silver Plate Co..... 46
Turnbull & Henderson 22

U

United States Register Co 29
Utica Drop Forge and Tool Co 23

W

Wallace Barnes Co 23
Walter, E. F., & Co 4
Warnock, James, & Co..... 59
Weese, G. A., & Son 64
Welsh Tinplate & Metal Stamping Co.. 4
Western Assurance Co..... 65
Western Wire Nail Co 10
Wilcox Mfg. Co..... 11
Wilkinson Sword Co 72
Winnipeg Paint and Glass Co 43
Wright, E. T., & Co 43

CLASSIFIED LIST OF ADVERTISEMENTS.

Aluminum Castings.
Canadian Aluminum Works Montreal.

Anvils
Taylor-Forbes Co., Guelph, Ont.

Art Glass
Hobbs Mfg. Co., London, Ont.

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Eclipse Mfg. Co., Ottawa.
Ramsay, A., & Son Co., Montreal.
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Pedlar People, Oshawa, Ont.
Phillips, Chas. D., Newport, Eng.
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Stanley Works, New Britain, Conn.
Stephens, G. F., Winnipeg.
Taylor-Forbes Co., Guelph, Ont.
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Warnock, James, Galt, Ont.

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Lougheed, J. S., & Son, Sarnia, Ont.

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Concrete Block Machine Co., Toronto.

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Brantford Cordage Co, Brantford, Ont.
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Erie Specialty Co., Erie, Pa.

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Turnbull & Henderson, Vancouver, B.C.

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Birkett, Thos., & Son Co., Ottawa.
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Dorken Bros. & Co., Montreal.
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Rouud, John, & Son, Sheffield, Eng.
Silberstein, A. L., New York.
Smith & Hemenway Co., New York.
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Wilkinson Sword Co., London, Eng.

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Metropolitan Business College, Ottawa.
St. Margaret's College, Toronto.

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Munderloh & Co., Montreal.

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Grose, Walter, Montreal.

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Sharratt & Newth, London, Eng.
Shaw, A., & Son, London, Eng.

Glue.
Grove Chemical Co., Lancashire, Eng.

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Erie Specialty Co., Erie, Pa.
Gurney, Tilden Co., Hamilton, Ont.
Mast, J. M., Mfg. Co., Lititz, Pa.
Smith & Hemenway Co., New York.

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Staniforth, Thos., & Co., Sheffield, Eng.

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Davidson, Thos., Mfg. Co., Montreal.
North Bros. Mfg. Co., Philadelphia, Pa.

Ice Cutting Tools.
Erie Specialty Co., Erie, Pa.
North Bros. Mfg. Co., Philadelphia, Pa.

Injectors—Automatic.
Morrison, Jas., Brass Mfg. Co., Toronto.
Penberthy Injector Co., Windsor, Ont.

Iron Pipe.
Montreal Rolling Mills Co., Montreal
Page-Hersey Iron and Tube Co., Guelph.

Iron Pumps.
McDougall, R., Co., Galt, Ont.

Ladders—Extension.
Waggoner Ladder Co., London, Ont.

Lanterns.
Kemp Mfg. Co., Toronto.
Ontario Lantern Co., Hamilton, Ont.
Wright, E. T., & Co., Hamilton.

Lawn Mowers.
Birkett, Thos., & Son Co., Ottawa.
Maxwell, David, & Sons, St. Marys Ont.
Smart, Jas., Mfg. Co., Brockville, Ont.
Taylor-Forbes Co., Guelph, Ont.

Ledgers—Loose Leaf.
Crain, Rolla L., Co., Ottawa.

Locks, Knobs, Escutcheons, etc.
Gurney & Tilden, Hamilton.

Machinery Supplies
Armstrong Bros. Tool Co., Chicago, Ill.
Canada Foundry Co., Toronto.
Canadian Fairbanks Co., Montreal and Toronto.
Jardine, A. B., & Co., Hespeler, Ont.
Kerr Engine Co., Walkerville, Ont.
Montreal Rolling Mills Co., Montreal.
Morrow Machine Screw Co., Ingersoll, Ont.
Penberthy Injector Co., Windsor.

Manufacturers' Agents.
Gibb, Alexander, Montreal.
Jenking, A. C., & Co., Montreal.
North West Machinery and Iron Co., Winnipeg, Man.
Thorne, R. E., Montreal and Toronto.
Turnbull & Henderson, Vancouver, B.C.

Metals.
Booth Copper Co., Toronto.
Canada Iron Furnace Co., Midland, Ont.
Canada Metal Co., Toronto.
Deseronto Iron Co., Deseronto, Ont.
Gibb, Alexander, Montreal.
Gilbertson, W., Pontardawe, Wales.
Hankin, F., Montreal.
Henderson, J. A., Montreal.
Ironside, Son & Co., London, Eng.
Jackson, C. F., & Co., Vancouver, B.C.
Johnston, Rd., Clapham & Morris, Manchester, Eng.
Kemp Mfg. Co., Toronto.
Leslie, A. C., & Co., Montreal.
Lewis, Samuel, & Co., Dudley, Eng.
London Rolling Mills Co., London, Ont.
Lysaght, John, Bristol, Eng.
Montreal Rolling Mills Co., Montreal.
Morton, B. K., & Co., Sheffield, Eng.
Nova Scotia Steel and Coal Co., New Glasgow, N.S.
Peck Rolling Mills Co., Montreal.
Samuel, Benjamin & Co., Toronto.
Saunders, Franklin & Co., Montreal.
Thompson, B. & S. H. & Co., Montreal.

Metal Lath.
Metallic Roofing Co., Toronto.
Pedlar People, Oshawa, Ont.

Metal Polish, Emery Cloth, etc.
Anglo-Canadian Supply Co., Toronto.
Solarine Company, Chicago.
Oakey, John, & Sons, London, Eng.

Milk Cans and Trimmings.
Davidson, Thos., Mfg. Co., Montreal.
Kemp Mfg. Co., Toronto.
McClary Mfg. Co., London, Ont.
Wright, E. T., & Co., Hamilton, Ont.

Mops.
Tarbox Bros., Toronto.

Nails and Spikes.
Montreal Rolling Mills Co., Montreal.
Ontario Tack Co., Hamilton, Ont.
Peck Rolling Mills Co., Montreal.

Office Furniture.
Office Specialty Mfg. Co., Toronto.

Paints, Oils and Glass,
Berry Bros., Detroit and Walkerville.
Canada Paint Co., Montreal.
Consolidated Plate Glass Co., Toronto.
Dods, P. D., & Co., Montreal.
Henderson & Potts Co., Montreal.
Hobbs Mfg. Co., London, Ont.
Imperial Varnish and Color Co., Toronto.
Jamieson, R. C., & Co., Montreal.
Lewis, Rice & Son, Toronto.
Lucas, John, & Co., Philadelphia, Pa.
Luxfer Prism Co., Toronto.
McArthur, Corneille & Co., Montreal.
McCaskill, Dougall & Co., Montreal.
Montreal Rolling Mills Co., Montreal.
O-So-Ezy Mfg. Co., Montreal.
Queen City Oil Co., Toronto.
Ramsay & Son, Montreal.
Sherwin-Williams Co., Montreal.
Standard Paint and Varnish Works, Windsor, Ont.
St. George, H. E., London, Ont.
Thorne, R. E., Montreal.
White Lead Association of Canada, Montreal.
Winnipeg Paint and Glass Co., Winnipeg

Perforated Sheet Metals.
Greening, B., Wire Co., Hamilton.

Plumbers' Tools and Supplies.
Canada Brass Rolling Mill, Toronto.
Canadian Fairbanks Co., Montreal.
Glauber Brass Co., Cleveland, Ohio.
Gies, Philip, Berlin, Ont.
Gurney Foundry Co., Toronto.
Jardine, A. B., & Co, Hespeler, Ont.
Jenkins Bros., Boston, Mass.
Mechanics' Supply Co., Quebec.
Morrison, Jas., Brass Mfg. Co., Toronto.
Naturo Co., Salem, N.J.
Page-Hersey Iron & Tube Co., Guelph.
Standard Ideal Sanitary Co., Port Hope,
Utica Drop Forge & Tool Co., New York.

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Canadian Portland Cement Co., Toronto
Hanover Portland Cement Co., Hanover, Ont.
Hyde, F., & Co., Montreal.
Thompson, B. & S. H. & Co., Montreal.

Pottery.
Foster Pottery Co., Hamilton, Ont.

Poultry Netting.
Greening, B., wire Co., Hamilton, Ont.
Page Wire Fence Co., Walkerville, Ont.

Refrigerators.
Davidson, Thos., Mfg. Co., Montreal.
Ham & Nott Co., Brantford, Ont.
Sanderson-Harold Co., Paris, Ont.

Registers.
Ferrosteel Co., Cleveland, Ohio.
United States Register Co., Battle Creek, Mich.

Roofing Supplies.
Jenking, A. C., & Co., Montreal.
McArthur, Alex., & Co., Montreal.
Metal Shingle & Siding Co., Preston, Ont.
Metallic Roofing Co., Toronto.
Paterson Mfg. Co., Toronto & Montreal.
Pedlar People, Oshawa.
Taylor-Forbes Co., Guelph, Ont.

Saws
Atkins, E. C., & Co., Indianapolis, Ind.
Disston, Henry, & Sons, Philadelphia, Pa.
Shurly & Dietrich, Galt, Ont.

Scales.
Canadian Fairbanks Co., Montreal.
New Warren Scale Co., Montreal.

Screen Doors and Windows.
Sanderson-Harold Co., Paris, Ont.

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Acme Lathe Products Co., Manchester
Bayliss, Jones & Bayliss, Wolverhampton, Eng.
Canada Foundry Co., Toronto.
Montreal Rolling Mills Co., Montreal.
Morrow, John, Machine Screw Co., Ingersoll, Ont.

Sewer Pipes.
Canadian Sewer Pipe Co., Hamilton
Hyde, F., & Co., Montreal.

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Bennett Mfg. Co., Pickering, Ont.

Shelf Brackets.
Atlas Mfg. Co., New Haven, Conn

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Toronto Silver Plate Co., Toronto.
Round, John, & Son, Sheffield, Eng.

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Canada Cycle & Motor Co., Toronto.

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Oneida Community Co., Niagara Falls Ont.

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McClary Mfg. Co., London.
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Smart, Jas., Mfg. Co., Brockville, Ont.
Wright, E. T., & Co., Hamilton.

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Peck Rolling Mills Co., Montreal.

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Ironside, Son & Co., London, Eng.
McGregor - Banwell Fence Co., Walkerville, Ont.
Montreal Rolling Mills Co., Montreal.
Oneida Community, Niagara Falls.
Owen Sound Wire Fence Co., Owen Sound
Page Wire Fence Co., Walkerville, Ont.
Walter, E. F. & Co., Montreal.
Western Wire & Nail Co., London, Ont.
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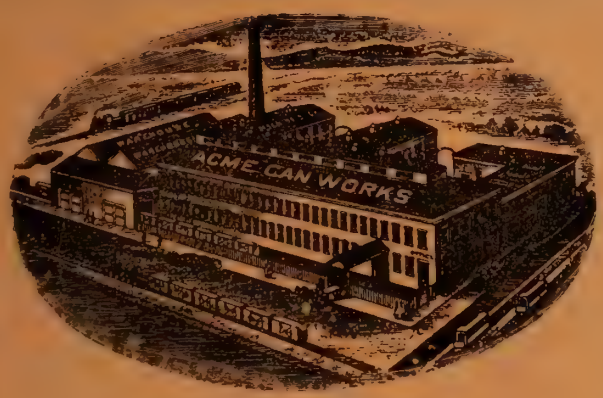
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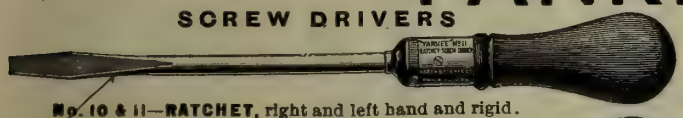
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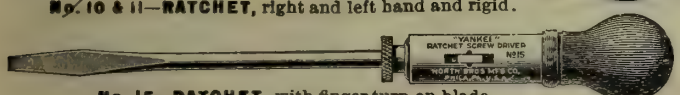
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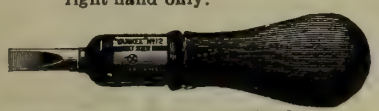
No. 15—RATCHET with finger turn on blade.



No. 30—SPIRAL RATCHET—right and left hand and rigid.
No. 31— " " (heavy pattern)
No. 20— " " right hand only.



Chuck and 8 Drill Points, for spiral ratchet screw driver.



No. 12—RATCHET, with stub blade.



No. 60—POCKET SCREW DRIVER.

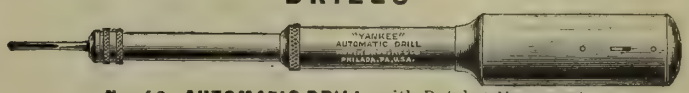


Countersink, for spiral ratchet screw driver.

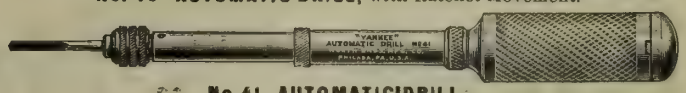


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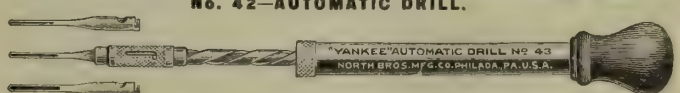
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No. 42—AUTOMATIC DRILL.



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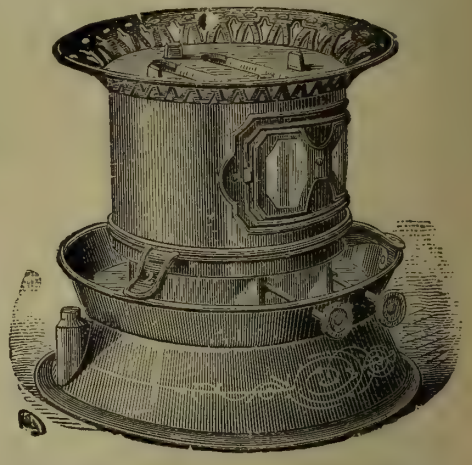
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For Beauty, Finish and Quality, the "Maple Leaf" Harvest Tools are unexcelled.



No. 122. Manure Fork.



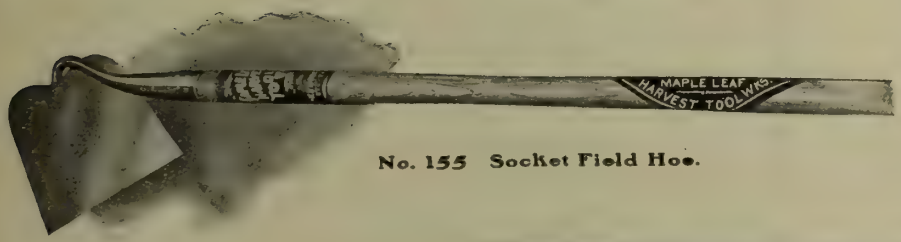
No. 138. Spading Fork.



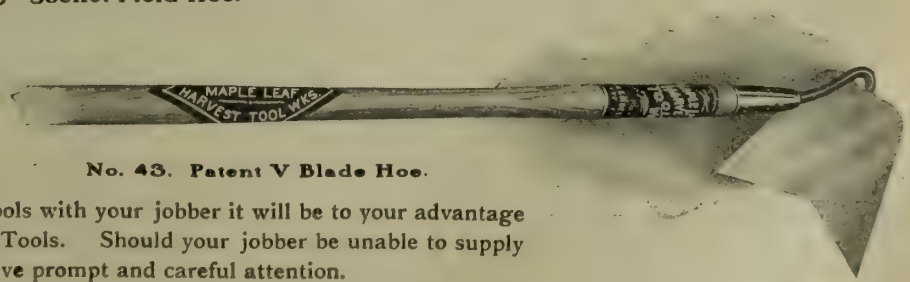
No. 243. Beet Fork.



No 108. Hay Fork.



No. 155 Socket Field Hoe.



No. 43. Patent V Blade Hoe.

TO THE HARDWARE TRADE—

When placing your order for harvest tools with your jobber it will be to your advantage to **specify** for the **"Maple Leaf"** Harvest Tools. Should your jobber be unable to supply them, send your order to us and it will receive prompt and careful attention.

The Maple Leaf Harvest Tool Co., Limited, Tillsonburg, Ont.



No. 4015
Shell Pattern
Handle Knife
12 dwt. Quality

THE TORONTO SILVER PLATE CO., Limited

Manufacturers of

Sterling Silver and Electro Silver Plate of every description.

In buying Plated Flatware from your jobber, see that it is stamped with our name and trade marks, as stamped in this way the quality is fully guaranteed, and you can be sure of the price being right.

If you have not received a copy of our new Flatware Catalogue, ***write for it.***

Factories and Salesrooms:
West King St., Toronto, Canada

E. G. GOODERHAM, Managing Director.



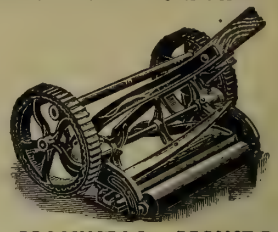
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DAVID MAXWELL & SONS
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"Maxwell Favorite Churn." PATENTED FEATURES: Improved Steel Stand, Roller Bearings, and Foot and Hand Lever Drive, and Detachable Driving Link. Improved for season of 1904. Steel or Wood Frame as desired.

Lawn Mowers. High and Low Wheels, from 12 in. to 20 in. widths. Cold Rolled Steel Shafting, Crucible Steel Knives and Cutting Plate.

If your Wholesale House does not offer you these articles
SEND DIRECT TO US.



MAXWELL MOWER
8-in. Low Wheel.



Wheelbarrows. In Four Different Sizes.

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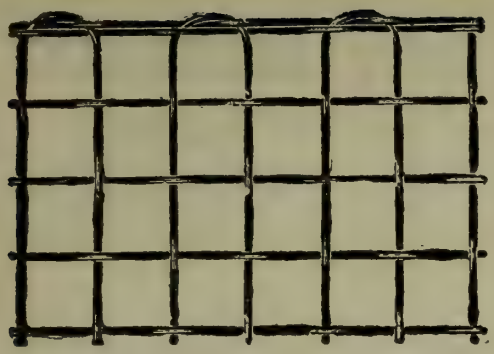
Galvanized Sheets for Corrugating are best. Submit your enquiries by mail or cable to
RD. JOHNSON, CLAPHAM & MORRIS, Limited
MANCHESTER, ENGLAND.



SHOW FRAME

given away free with an order for three half-dozens Shears as illustrated above. May be procured through all leading Wholesale Hardware firms.

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WIRE CLOTH

FOR

Sand Screens,
Coal Screens,
Mining Screens,
Cinder Sifters,
Evaporators,
Grain and Seed Cleaning Machinery,
Milk Strainers,
Galvanized and Re-galvanized Cloth,
Wire Lathing,
Window Protection,
Malt Kiln Floors,
Woolen Mills,
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And for all purposes.

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Dillon Hinge-Stay —Fence—



Don't let YOUR farmer customer go to the OTHER Hardware for his fencing because you have none. If so, he is likely to get his Stove, Harvest Tools and other goods there, too.

Put in a small attractive stock of our 1905 DILLON fence ing, keep it where it can be seen and it will attract farm custom. Good margin in it for you, too.

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Owen Sound, Ont.

MESSRS. CAVERHILL, LEARMONT & CO.,

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MONTREAL AND TORONTO LIMITED

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FOR

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WOOD SCREWS

STEEL WIRE NAILS

WIRE HOOPS

Allow us to send you samples of these Hoops.
You will find them stronger and cheaper than wooden ones.

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Manufacturing
GOLDSMITHS and SILVERSMITHS
Contractors to
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REGISTERED TRADE MARKS
ESTABLISHED 1847

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Manufacturers of all Kinds of

GOLD, SILVER
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Silver and Plated Cutlery
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WE WANT TO MAIL OUR CATALOGUES TO ALL CANADIAN DEALERS
WILL YOU SEND US YOUR NAME?

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WHATEVER YOUR REQUIREMENTS ARE DROP US A LINE

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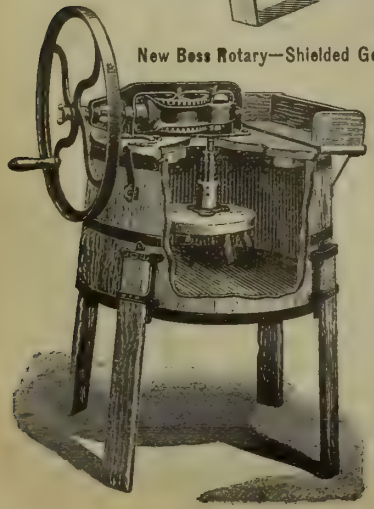


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New Boss Rotary—Shielded Gears



Made by the largest Washing Machine Factory in the world. Capacity, 600 machines per day.



Exclusive Agencies Given

Write at once and secure agency, thus protecting your profits by avoiding competition. Address

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either at **HAMILTON** or **WINNIPEG.**

MANUFACTURED BY

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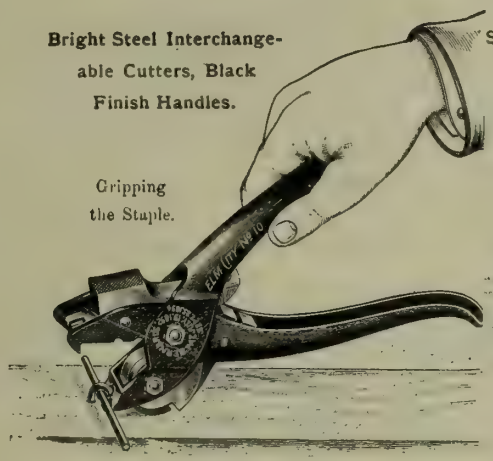
Trade winners are what you are looking for. They make people say you are up-to-date. Here is one, the "Elm City" No. 10, staple pulling plier. Note the different uses to which the tool can be put.

It is not flimsy.

Brings a good profit at $1.00 or should sell readily at $1.25.

Many other styles of Fencing Pliers and Fencing Tools.

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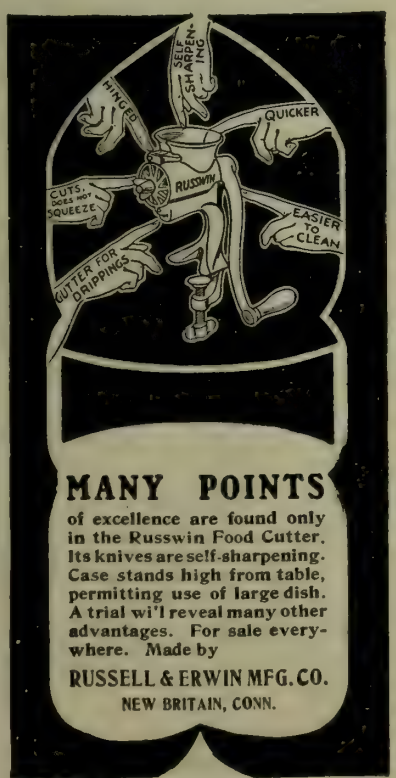


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Wholesale Hardware and Iron Merchants, - - Montreal, Canada.

For 96 Years Sellers of Hardware.



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of excellence are found only in the Russwin Food Cutter. Its knives are self-sharpening. Case stands high from table, permitting use of large dish. A trial wi'l reveal many other advantages. For sale everywhere. Made by

RUSSELL & ERWIN MFG. CO.
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—FOR SALE BY—

The KENNEDY HARDWARE Co., Limited
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ONEIDA COMMUNITY'S WELDLESS COW TIES.

Illustration shows the

NIAGARA WIRE LINK

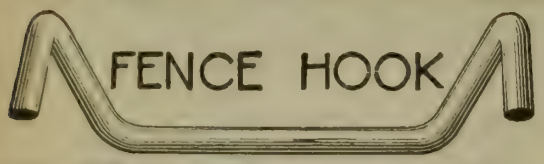
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Also made in CLOSED RING, THREE CHAIN and DOMINION (or "Short") TYPES.

Oneida Community Cow Ties can be had of all the leading jobbers. We invite correspondence where any difficulty is experienced in obtaining our goods.

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GALVANIZED FENCE HOOK FOR FASTENING WOODEN PICKET ON WIRE FENCES



WIRE NAILS, COILED SPRING, BARB and PLAIN FENCE WIRE, OILED and ANNEALED, CLOTHES LINE WIRE, STAPLES, etc.

THE WESTERN WIRE & NAIL CO., Limited, LONDON, ONT.



"LITTLE SHAVER"

A handy kitchen utensil for scraping chocolate, slicing small fruits and vegetables. Sells well at all seasons because always useful. Made of hardwood. Blade of finely tempered steel.

Dealers write for prices to

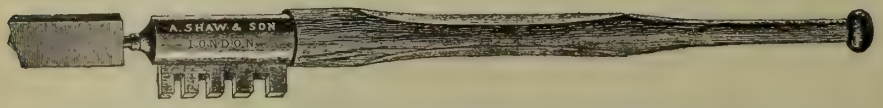
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43 and 44 Percival Street, · · London, England
Contractors to H. M. Government and the Principal English Sheet and Plate Glass Works.
ALSO Established 1815
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GLAZIERS' DIAMONDS



Ahead of all others in **quality** and **workmanship**. If **sparks** of **fine quality, set by experts**, are what you require, buy Diamonds of **A. Shaw & Son's** make.

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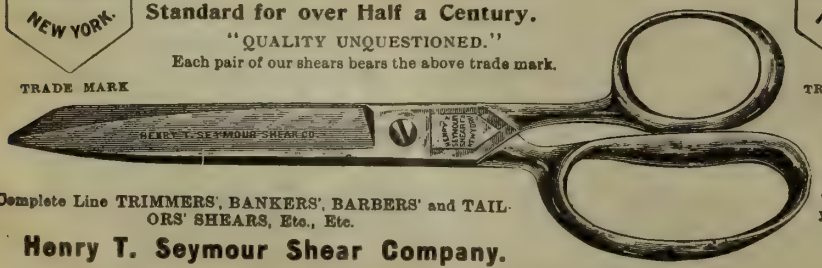
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HAVE BEEN THE
Standard for over Half a Century.
"QUALITY UNQUESTIONED."
Each pair of our shears bears the above trade mark.

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WIEBUSCH & HILGER, Limited, NEW YORK, Sole Agents.

LET ME DO YOUR COOKING



Why worry, watch and fret over a hot stove when you can put your meat, vegetables, custards—in short, the whole meal for the whole family, into my ample shelves and cook it, as food never was or can be cooked in any other way, over ONE BURNER, of stove, range, gas, gasolene or oil stove?

No watching; no basting; nothing overdone nor underdone. I am the

IDEAL Combination Steam Cooker and Baker with Whistle

made of heavy tin *or copper* with ALL COPPER seamless drawn tank; seamless top. No sharp corners on me to catch the clothing or hands or to retain grease and dirt. I BLOW MY WHISTLE 20 minutes before water needs replenishing; never go on a strike or talk back. I CUT THE COST OF FUEL and WORK IN HALF, save time and wear and tear on your temper and vocabulary. I hold 12 one-quart cans in canning fruit. Write now for

Free Book 48 pages It tells you all about me. Gives full details; letters from people all over the land who would not do without me for ten times what I cost.

A DEALER wanted in every town as exclusive agent. Address

J. A. Ross
Sole Canadian Agent
141 Bannatyne Ave.
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Agent Wanted

A first class agent to represent a Sheffield house of high standing, in ***silver*** and ***plated hollow-ware, spoons*** and ***forks, plated*** and ***silver cutlery, steel cutlery, etc.***

To one who has a good connection, liberal terms will be given. None but applications of the highest class will be considered. Communications will be treated in strict confidence. Address, stating age, all particulars, salary required, to

"SILVER," Box 73, Post Office, Sheffield, England. (f19)

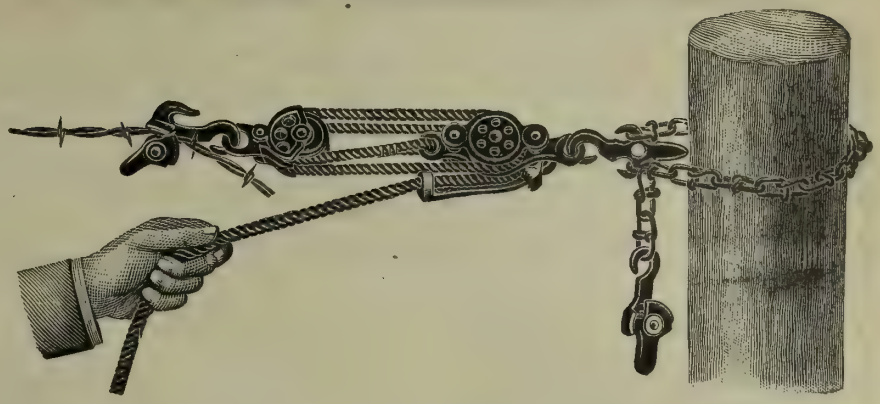
THIS IS THE

OLD STAND-BY

None better on the market unless it is the Triumph.

If your Jobber cannot supply, write us for prices.

NO. 233.—WILCOX TACKLE-BLOCK WIRE STRETCHER



WILCOX MFG. CO. OF ONTARIO, Limited, London, Ont.

American Steel & Wire Co.

New York Empire Building | **Montreal** N. Y. Life Building | **Chicago** The Rookery

BARBED WIRE CALVANIZED PLAIN WIRE
PLAIN TWIST CABLE FENCING

Telegraph and Telephone Wire; Mattress, Broom, Weaving Wires of every description; Rail Bonds, Bale Ties, Special Wires for all purposes, Springs, Horse Shoes, Wire Rope, Cold-drawn Steel Shafting.

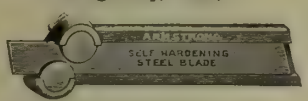
MONEY SAVING TOOLS



Straight Lathe Tool (11 sizes)



Boring Tool (6 sizes)



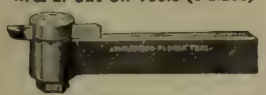
Straight Cut-Off Tool (7 sizes)



Threading Tool (5 sizes)



R. & L. Cut-Off Tools (8 sizes)



Planer Tool (7 sizes)



ARMSTRONG TOOL HOLDERS SAVE

ALL FORGING.
90 per cent. TOOL STEEL.
70 " " GRINDING.

The Armstrong Universal Ratchet Drill.

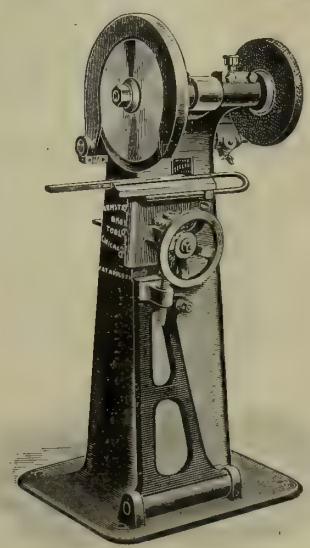
No Ball Joints or Bevel Gears.

Two inches of motion at end of handle IN ANY DIRECTION will Drive the Drill.

Pat. Nov. 8, 1898.
Sept. 29, 1900.



When the other ratchets you have are useless for lack of room to move the handle, get an "Armstrong Universal" and it will do the job.



PROCESS PATENTED.

Machine for Cutting Off and Grinding Tool Holder Cutters.

SAVES TIME, STEEL AND EMERY WHEELS.

WRITE FOR CATALOG.

ARMSTRONG BROS. TOOL CO., "The Tool Holder People." **104 to 124 N. Francisco Ave., CHICAGO, U.S.A.**

IMITATIONS ARE UNSATISFACTORY—INFRINGEMENTS ARE UNLAWFUL.

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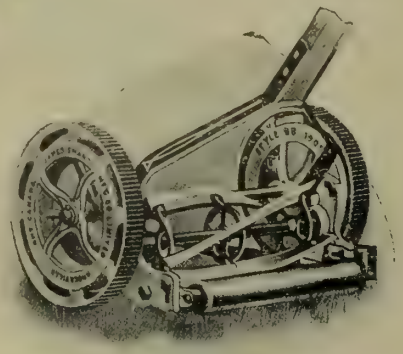
To Owner
see Book 39
page 32

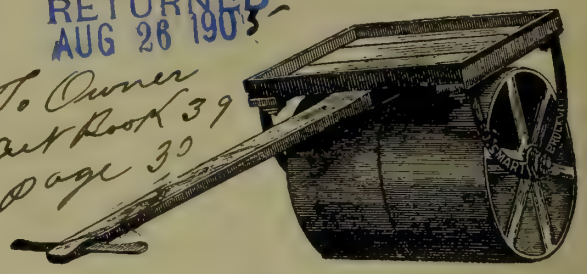
LAWN AND GARDEN ROLLERS

Complete as per cut, or with wrought iron handle attached direct to axle and without platform.

Four Sizes for Hand.

Three Sizes, complete with Shafts and Seat, for Horse.





LAWN MOWERS

10½ INCH DRIVING WHEELS.

STYLE B B. ***WITH BALL BEARINGS,*** Finished in light blue and Aluminum.

STYLE C. ***ORDINARY BEARINGS,*** Finished in Aluminum and Gold Bronze.

THE LEADERS IN THE PROCESSION

ALSO GARDEN HOSE REELS AND LAWN SPRINKLERS

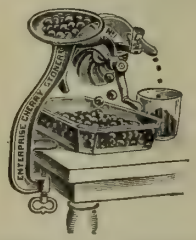
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THE JAMES SMART MFG. CO., LIMITED

BROCKVILLE, ONT., and WINNIPEG, MAN.

"ENTERPRISE"

A SEASONABLE SHOWING



Cherry Stoner, No. 1, $7.50 doz.



Lawn Sprinkler, No. 1, $3.50



Fruit, Wine and Jelly Press, No. 34, $3.00



Food Chopper, No. 50, $1.25

AT this season, women (and their husbands), have it on their minds to buy a Cherry Stoner, or Lawn Sprinkler, or Fruit Press, or Food Chopper. They know all about "Enterprise" goods, and you will make many a sale that would otherwise be lost if you

SHOW THEM

Two Questions: Are you having good sales of the new size, No. 50 Enterprise Food Chopper? It Chops 1½ lbs. of meat a minute and retails for $1.25. Have you got our 1905 catalogue handy for reference? If not, drop a postal for another.

THE ENTERPRISE MFG. CO. OF PA.

PHILADELPHIA, U.S.A.

New York Branch
10 Warren St.

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ON ACCOUNT OF THE RAPID DEVELOPMENT IN THE CANADIAN OIL FIELDS, WE HAVE EQUIPPED OUR MILLS WITH SPECIAL MACHINERY FOR MANUFACTURING

OIL WELL CABLES
SAND LINES
SUCKER ROD LINES
TORPEDO LINES
BULL ROPES

WE ARE PREPARED TO SUPPLY CABLES IN EXTRA LONG LENGTHS WITHOUT SPLICE.

ONE OF OUR CUSTOMERS, A VETERAN DRILLER, WRITES:

"I have had thirty-four years at the business, and have had such splendid satisfaction out of those ropes you made me. I must say they wear well and give the best of satisfaction, and it is with much pleasure I send my orders straight to the firm, knowing I am sure of a good article"

CONSUMERS CORDAGE CO., Limited

Mills—MONTREAL and HALIFAX. MONTREAL.

BRANCHES:

W. A. C. Hamilton, Toronto, Ont.
Merrick, Anderson & Co., Winnipeg, Man.
F. H. Andrews & Son, Quebec, Que.
MacGowan & Co., Vancouver, B.C.
Consumers Cordage Co., Ltd., St. John, N.B.

Sort Up Your Stock

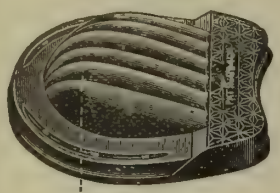
Ever Think of **HORSE SHOE PADS** as a Stock Line?



Summer days are here. Horse Shoe Pads sell like hot cakes these out-door months of May, June and July. Write any of our Sales Branches for illustrated descriptive literature on our full range of Horse Shoe Pads. :: :: ::

THE CANADIAN RUBBER CO. OF MONTREAL TRADE MARK

Look for this Trade Mark on every Pad.



See that Cushion?
It fills with air at each step.
That's what breaks concussion.
That's what prevents slipping.
That's what keeps the foot healthy
That's what cures lameness.

Horse Shoe Pads lengthen the life of a good horse ; improve a poor horse out of sight.

Sales Branches and Warehouses:

172 Granville St., Halifax, N.S.	Imperial Bank Building, Montreal, Que.	Front and Yonge Sts., Toronto, Ont.	89 Princess St., Winnipeg, Man.	403 Cordova St., Vancouver, B.C.

THE CANADIAN RUBBER Co. OF MONTREAL.

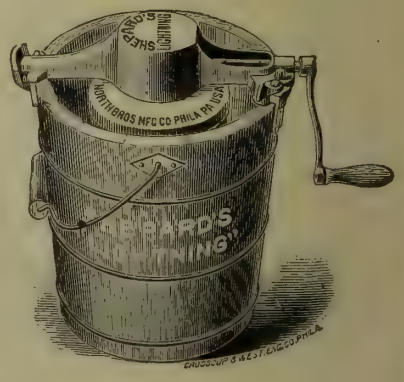


Novelty Refrigerators and Water Coolers

Made of Heavy Galvanized Iron. Finished in Oak with Gold Bands. Nickel Plated Faucets. 3 sizes.

Ice Cream Freezers

We handle the "Lightning" Quadruple Action Freezer. Sizes 2 to 20 quart—the best on the market to-day. Also the "Blizzard" Single Action Freezer. Sizes 2 to 10 quart.



For a low priced freezer there are none better than the "Blizzard."

WE WILL BE PLEASED TO QUOTE YOU

KEMP MANUFACTURING CO., TORONTO, ONT.

THE KEMP MFG. AND METAL CO., LIMITED,
McDermot Ave. East, Winnipeg, Man.

THE KEMP MFG. CO. OF MONTREAL,
58 McGill St., Montreal, Que.

THE EVOLUTION OF ELECTRIC TRACTION.

TO Thomas Davenport, blacksmith, of Brandon, Vt., belongs the honor of making the first recorded experiment in electric traction, for in 1834 he showed, at Springfield, and again in Boston, a toy model, mounted on wheels, and propelled a few feet on a circular railway by the current from a primary battery. This was but one of his accomplishments, for history relates that in a few years he constructed and put into operation no less than a hundred motors of a type now, of course, obsolete.

Four years later Robert Davidson, of Aberdeen, constructed an electric locomotive, which was tried on the Edinburgh-Glasgow Railway. In 1847 Moses G. Farmer, one of the most prolific of early experimenters, exhibited a small electric model at Dover, N.H., and three years later, in Boston, Thomas Hall showed an automatically reversing motor. The next year Prof. Page, of the Smithsonian Institute, with Congressional help, equipped and ran an electric car on a road near Washington.

Important Discoveries.

All these and various other experiments of those early years depended on the use of primary batteries, and hence, irrespective of the shortcomings of the machines themselves, commercial success was impossible. It was not until the invention by Pacinotti, in 1861, of the continuous-current dynamo, improved and developed by Siemens, Whitestone, Varley, Rowland, and others, and the discovery of the reversible functions of the dynamo-electric machine, said to have been made originally by Pacinotti in 1867, but certainly proved, some say, at first by accident, by Gramme and Fontaine in 1873, that the key to the electrical transmission of energy was found.

The First Electric Roads.

Between this date and the beginning of experimental work on modern lines, I find a mention of but one name, that of George Greene, a poor mechanic in Kalamazoo, Mich., who built a model car operated from a battery current passing through the track and an overhead wire.

About four years later three inventors, whose names are known the world over, became almost simultaneously and independently interested in electric railways. These were Dr. Werner Siemens, Stephen D. Field, and Thomas A. Edison. To Dr. Siemens belongs the credit of actually operating from a dynamo the first road for carrying passengers. This was accomplished at the Berlin Exposition in 1879. A toy-like affair it was—a miniature locomotive pulling three small cars, which seated about twenty passengers.

In 1879 Field filed a caveat showing an electric railway taking current from a wire inclosed in a slot, and in 1881 made experiments in Stockbridge, Mass. In 1880, Edison, utilizing one of his old "Z" lighting dynamos, constructed and operated a small road in the yard of his laboratory at Menlo Park, using the two rails as conductors.

Early Experiments.

About this time various other inventors began to take up the study of the subject, and Jenkins, Ayrton and Perry began the development of telferage or automobile railways. Chance is often responsible for inventions, and perhaps for my own entry into the railway field, for, although I had become interested as early as 1879 in the possibilities of a somewhat eccentric motor, it was not until 1882, when my duties as a member of a jury at the Crystal Palace, Sydenham, London, took me on the underground railroad, that I seriously considered this special problem.

In the year 1883 Field and Edison combined forces and exhibited at the Chicago Railway Exhibition a locomotive, called the Judge, which ran around the gallery, the motor used being a Weston electric dynamo. Siemens also installed the first line in Great Britain—that at Portrush, Ireland, and another short line was installed at Brighton by Magnus Volk. Charles J. Van Depoele, a woodcarver by trade, but an electrician at heart, and an indefatigable worker, began experiments at his factory in Chicago, using a 5-light dynamo on a car platform, and taking current from a wire laid in a slotted plank. He followed this by the installation of a short line at the Industrial Exhibition.

It was also in 1883 that that veteran of early struggles, Leo Daft, began his labors in Greenville, N.J., following them that Fall with the operation of the Ampere at Saratoga, and soon after with small roads elsewhere. Bently and Knight began their experiments in the yards of the Brush Electric Co., and in the following year they established a short conduit line in Cleveland, which was spasmodically operated during that Winter. At this time Van Depoele operated a road in the Toronto Exhibition, and Anthony Reckensaum, a particularly able engineer, actively conducted storage-battery work abroad.

The year 1885 was prolific. Daft began operations in Baltimore on the Hampden branch of the Union Passenger Railway with two locomotives, this being, I think, the first regularly-operated electric railroad in the country.

Meanwhile Van Depoele had begun operations at South Bend and Minneapolis, Henry had installed a small line in Kansas City, and Short had embarked on experiments with a series system at Denver. That year and the next two years saw active work by all of us who had ventured in this new field, some with central station power and others with storage-battery supply. Van Depoele and Daft were responsible for the principal roads actually installed at this time.

Active Progress.

The years between 1888 and 1898 were marked by continued and vital improvements in electrical apparatus and equipments, among which must be specially mentioned the introduction of the carbon brush of Van Depoele, the Thomson magnetic blow-out by Potter, form-wound armatures by Eickemeyer, and the combination of resistance and series parallel control, which was originally proposed by Hopkinson in 1880. Cast iron gave way to steel, two-pole motors to four-pole, self-open motors to closed and self-protected, and the single gear again resumed sway. The single trolley retained first place, as it still does, when we consider simplicity, effectiveness and minimum first cost.

Train operation, as distinguished from that of railway cars, began on the South London Railway in 1890, and this was followed by various proposals for the New York Elevated Railroad, the installation of the Intramural road at the World's Fair, Chicago, the equipment of the Lake Street Elevated Railway, and by other installations. Heavy electric locomotives were built in 1892 and 1893, both for experimental work and for regular operation in the Baltimore & Ohio tunnel.

Alternating Current.

Meanwhile the limitations of direct-current motor work were greatly extended by developments in polyphase transmission, and the transformation of alternating current into direct current at a lower pressure by static and rotary transformers, through the work of Tesla, Stanley, Scott and others. The first actual proposal to use this combination was made in 1896 by Mr. Arnold, past president of the American Institute of Electrical Engineers, and it has now become standard practice. One immediate result of this was the rapid introduction of comparatively long-distance, high-speed, inter-urban electric railway lines, which, although generally operating single cars, have exerted a great influence upon steam railways and been instrumental in welding together urban and rural communities.

Recent Developments.

But with all these advances, train operation was still limited, and largely because of adherence to old-fashioned locomotive practice. Having been for a long time engaged in developing the indirect control of elevators, the thought suddenly flashed upon me that trains could be better operated by simultaneously operating a number of controllers, each with its own motors, thus allowing any desired aggregation of independent units in a train having all the characteristics of the individual.

Up to the present time almost all important work has been conducted with continuous-current motors at moderate potentials, but on any large system this requires the transmission of energy from a long- distance by high-pressure alternating current, and reduction to a lower pressure and transformation at substations.

To economically extend the radius of

electric operation from these sub-stations it is, of course, essential to work at comparatively high pressure. In order to attain this end without running into serious or assumed difficulties with continuous-current motors, as well as to get rid of the moving element in sub-stations, the activities of leading engineers, among whom must be mentioned Tesla, Finzi, Lamme, Eichberg, and Steinmetz have for some time been on the development of the alternating-current motor. The earlier attempts in this direction were for a machine without a commutator, that is, one that could be operated by polyphase currents, and it is on these lines that the admirable work of the Ganz Co., and the high-speed tests on the Zossen military line in Germany have been carried out.

But the recent developments, in America at least, have been almost entirely along lines of single-phase operation, in order to maintain the simplicity of the present trolley line practice. A large measure of success has already been attained in this direction, so much so that the single-phase motor can now be accepted as an essential contribution to railway operation, its adoption being a matter of individual determination. In this connection I should add that Mr. Arnold was one of the earliest, and has been one of the most consistent, advocates of single-phase operation—Frank J. Sprague, American Ins. E. E.

MODERN DOOR CATCH.

A NEW and improved screen door catch, called "The American," is being introduced to the hardware trade this season. Three illustrations are shown herewith, which give


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MAY 20 1905

Fig. 1.

the reader a fair idea of the mechanism of this modern invention. Fig. 1 displays the catch and attachments. Fig. 2 shows the position of the catch when the door is opened, and Fig. 3 illustrates the position of the catch when the door is closed. It is made of stamped wrought steel, corrugated, and has an attractive appearance. This catch can be used on any kind of doors, whether they swing right or left, up or down, or in or out. It is adapted for screen doors, and will keep flies out by keeping the door closed. The position of the catch on the door is not important, but is recommended to be placed 12 or 15 inches from the top. The device, however, may be placed at the centre of the door, or at any point where the door has a tendency to warp. It is always ready for action, and needs no attention after being placed in position. It keeps the door closed tightly and permits it to be opened with a gen-


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Fig. 2.

tle shove. Each catch, with staple, screws and cardboard templet, are packed in a strong envelope, one dozen envelopes in a neat carton with spring-back cover and colored display cards. The templet is a piece of cardboard with an outline of the catch and staple. It is bent at right angles, showing location of the screw holes in door and jamb, with full instructions for attaching. A spiral coil spring keeps the notched wheel in position holding the door shut or keeping the wheel in position ready to receive the part that is attached to the door when it is being closed.

The American Hardware Mfg. Co., Ottawa, Ill., who manufacture the catch, will be pleased to forward upon request of any reader who mentions Hardware and Metal, a sample catch without charge to any dealer, so he may attach it to his store or house door, and judge for himself the merits of the article. The catch has met with unbounded success from jobbers, dealers, and customers; it tells its own story

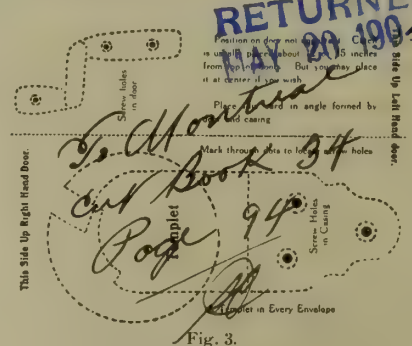

RETURNED
MAY 20 1905
Montreal
Cat Book 34
Page 94

Fig. 3.

and requires only to be seen to be appreciated. Frothingham & Workman, Montreal, and other wholesalers in Canada, are handling this catch, and orders may be sent to them after a sample received from the manufacturers has proved the merit of the article to the retailer.

B.C. TRAVELERS' TAX.

THE North-West Commercial Travelers' Association have sent the following petition to the Minister of Trade and Commerce with reference to the tax on commercial travelers from other provinces recently imposed by the Legislature of British Columbia:

"Your petitioners, the North-West Commercial Travelers' Association of Canada, took all possible steps to induce the Government of British Columbia to refrain from passing legislation putting a tax on members of this and other associations of travelers in Canada, on the ground that it is an unjust discrimination against Canadian non-residents and a direct interference with inter-provincial trade. Your petitioners also have been accorded an interview by you, having waited on you with delegates from Toronto, London, Montreal and other associations of commercial travelers.

"The obnoxious tax is now being enforced, and we would respectfully beg that you would take up the matter of disallowing this Act at as early a date as possible, and would respectfully submit the following resolution passed by the Board of Trade at Nelson, B.C., showing that the people of British Columbia are not by any means in favor of this essentially class legislation, which has a tendency to interfere with the freedom of trade between the several provinces of the Dominion.

> That in the opinion of the wholesalers' section of the Nelson Board of Trade, the recommendation of the British Columbia Assessment Commission to the Government of the province respecting the imposition of a tax on commercial travelers doing business in British Columbia is considered most objectionable in principle.

"Your petitioners would humbly pray for an early consideration and adjustment of this matter. Signed on behalf of the North-West Travelers' Association of Canada.

John Horne, President.
Fred J. C. Cox, Secretary."

Machine oils will soon be attracting attention. Get a good oil that will not gum up the machine and make the farmer swear at you.

WIRE NAILS
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Prompt Shipment

The ONTARIO TACK CO.
Limited.
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CATALOGUES AND BOOKLETS.

For the convenience of its readers HARDWARE AND METAL has opened its columns for the review of catalogues booklets or other such publications issued by manufacturers or wholesale dealers selling to the hardware, plumbing, machinery or metal trades. Retailers desiring such publications may also have inserted a note to that effect. It is requested that when any of the trade write for any booklet mentioned in these columns that they credit HARDWARE AND METAL as the source of their information.

"Bass Rising to a Fly."

THE Enterprise Manufacturing Co., Akron, Ohio, have sent Hardware and Metal one of their comprehensive catalogues of fishing tackle and accessories, a book which will be found of great value by every hardware merchant who carries a line of sporting goods. Reels, lines, floats, handles, hooks, baits, spinners, flies, and other specialties are illustrated in profusion, the lines shown being very pleasing and attractive. In addition to the catalogue a metal sign, window transparency and lithograph of the fish picture "Rising to a Fly" were included. Readers who desire to secure copies of these valuable advertising novelties should mention Hardware and Metal when writing to the company.

Pneumatic Tools.

The Ingersoll-Sergeant Drill Co., 26 Courtlandt street, New York, have issued a number of booklets illustrating their pneumatic tools, hammer drills and air compressors, which will be forwarded to any reader who requests a copy and states the name of the publication in which this offer is made.

Handy Card for Retailers.

The B. Greening Wire Co., Hamilton, have prepared a card for use by retailers who handle wire goods, which is certain to meet with general approbation, the card containing a simple table which enables the merchant at a glance to see how many square feet of screen cloth there are in a piece of any length or width. The card can be hung up in a convenient place, and is one of the handiest tables the hardwareman can have in these days of wire fencing. Any merchant who mentions Hardware and Metal will receive one post free upon request.

Rotary Washing Machines.

A fine line of rotary washers is illustrated in a leaflet sent us by the Wayne Manufacturing Co., St. Louis, Mo., their lines being the "New Wayne," "Eagle," "Jewel" and "Empire." The machines are ball-bearing and up-to-date in any particular. Dealers who have found washers to be a paying line should know the talking points of every machine, and it will pay them to send for particulars of the above lines, mentioning this journal when writing.

Scully's Stock List.

The May and June number of Scully's Stock List, containing a great deal of useful information, tables and lists of tools and machines, will be sent to any reader who mentions this journal when writing to the Scully Steel & Iron Co., Chicago.



Money in Shingles

Not only for the dealer in lumber, but for the dealer in paints as well. If you are selling paints to make money, meet the demand of a paint for every purpose. There is a large and increasing demand for

SHERWIN-WILLIAMS
PRESERVATIVE SHINGLE STAINS
(Made with Creosote)

Because they beautify and preserve the shingles on any house. Creosote is the best wood preservative known. When combined with proper coloring pigments, it produces a stain of great beauty and one that effectually prevents decay.

Preservative Shingle Stains should be on the shelves of every dealer. They meet with ready sale and pay a good profit. We want you to have this profit.

Write today for prices and samples of stain on wood.

THE SHERWIN-WILLIAMS CO.
PAINT AND VARNISH MAKERS
Canadian Headquarters and Plant: 639 Centre St., Montreal, Que.
Warehouses: 86 York St., Toronto; 147 Bannatyne St., East, Winnipeg, Man.
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New Brunswick, Illustrated.

"Saint John, New Brunswick," is the title of a booklet containing much valuable information, as well as good maps and beautiful illustrations. Copies will be mailed free to any address on application to Mrs. R. E. Olive, secretary Tourist Association, St. John, N.B.

Handsome Pocket Catalogue.

One of the handsomest pocket catalogues received at this office for some time is one just from the press and being sent out by the Imperial Varnish & Color Co., 6 Morse street, Toronto. The cover is a neat specimen of embossed color work, the company's monogram surmounting the maple leaf on both front and back cover. Inside are 88 pages of fine-coated paper, containing a complete price list of all the lines carried by the company, the book being divided into divisions separating the numerous classes of varnishes, etc., manufactured for the various trades. The book should be in the hands of every reader of Hardware and Metal, and any who write mentioning this paper will receive a copy free.

Twentieth Century Tools.

The B. F. Barnes Co., Rockford, Ill., have issued a neat catalogue of machine tools, drills, lathes, etc., the book being well illustrated with half-tones, accompanied by ample descriptive matter and specifications of the various machines. A copy of the catalogue will be sent to any merchant who mentions this journal in his letter of inquiry.

Construction Material.

The Canadian General Electric Co., Limited, Toronto, have issued section 3 of their supply catalogue dealing with construction material. The book is well bound in paper and contains 188 pages, all classes of electrical construc-

tion material and tools being well illustrated and described. Members of the trade interested can, by mentioning this journal, secure a copy of the book upon request.

OIL STORAGE.

MUCH attention has been given the question of safe oil and gasoline storage of late, the result of a serious loss of life in the Northwest.

A merchant was obliged to go down in the basement soon after dusk, to get a can of oil,and in some way upset his lantern. The flames caught up a small stream of oil that had leaked out of an old tank, and before the merchant could extinguish the flames his clothes were ablaze and the tank ignited. In the catastrophe which followed, the unfortunate man was burned to death, and his store destroyed.

Only a few days previous, a representative of a tank manufacturing firm called upon this merchant and endeavored to convince him of the disadvantages of his method of handling oil, and the advantages which a good substantial self-measuring oil outfit would offer. His reason for not buying was that there was not much profit in oil, and he did not feel he could afford a new tank. Upon a return visit, shortly after the fire, this salesman had little trouble in placing his outfits in the stores of the other merchants in the town referred to.

In its endeavor to place a perfect self-measuring oil outfit upon the market to overcome this danger of fire, the firm of S. F. Bowser & Co. have made a careful study of the question, and have now perfected an outfit which meets all the requirements of handling oil in a safe, convenient and economical manner. Not only is it absolutely safe, but convenient, durable and in all respects satisfactory. This outfit merits the careful attention of all merchants who desire to insure the safety of their stores and the lives of themselves and clerks.

MOVED TO NEW OFFICES.

James Hutton & Co., agents for Rogers' cutlery, Butcher's razors and files, T. Goldsworthy & Sons' emery and emery cloth, railway supplies, etc., who were formerly at No. 232 McGill street, Montreal, have removed to their new offices in the building which has been erected by the Sovereign Bank at 230 St. James street. Mr. Crowdy, the managing representative, who has just returned from a holiday trip to the West Indies, reports having had an excellent time while away. In regard to trade, Mr. Crowdy stated that prices are all firm, although at present there is no indication which would point to an advance.

FREIGHT CONDITIONS ABROAD.

MR. H. D. ANNABLE, general freight agent for the C.P.R. in London, Eng., who was in Montreal a few days ago, says that Canadian trade in Great Britain is dull at present. The lumber market is dull, and in other respects as well very little business is being done. On the contrary, the merchants of Britain are reaching out to the colonies and the steel manufacturers, for example, are doing now what they never did before—sending travelers to Canada. In that way a great deal of business is being done between merchants in Canada and the manufacturers in Sheffield direct.

Mr. Annable is of the opinion that this condition will become increasingly apparent as the years go on, and the population of Canada becomes larger. It is a good sign, he thinks, at the present time, however, showing, as it does, that the English merchants are awaking to the necessity of adopting new methods. "England is not as backward as some people out here would have you believe," he remarked.

The merchants over there are now hustling for all they are worth. Possibly it may be true that in the past they have succeeded in spite of their methods rather than because of them, and may be said so again, but that will not be for long. The British merchant will remain in the vanguard.

There are **HAMMERS** *that "Knock," and there are* **HAMMERS** *that convince. We employ the convincing kind; for instance, we say contact with the Hammer will not discharge an*

IVER JOHNSON REVOLVER

And then we use our **HAMMER** *just to demonstrate the truth of our assertion. We call this a convincing argument, not "Knocking."*

Hammer the Hammer



Send for literature.

IVER JOHNSON'S ARMS & CYCLE WORKS,
FITCHBURG, MASS.
New York Office: No. 99 Chambers Street.

VALUABLE BOOK.

A Classified Article List of Industrial Products for Canadian Buyers, 1905-1906. Trade edition. Bound in blue cloth, $2.00. Montreal: The Manufacturers' List Co.

This volume of 430 pages is supplementary to the Canadian Industrial Blue Book, The Manufacturers' List, Buyers' Guide of Canada, issued by the Manufacturers' List Co. It provides a complete list of the articles contained in the Blue Book, and any additional articles that have subsequently been brought out by the industries of the country. It is issued for the benefit of merchants and dealers throughout the Dominion.

The plan of the book is to work from the article to the manufacturer. The articles manufactured are arranged alphabetically, and beneath each are given the names and addresses of the manufacturers. Before each name is placed a figure indicating whether the manufacturer's shipping rating is local and provincial, provincial and dominion or dominion and export. There are also references to the advertisements contained in the book, which give more detailed information about the products of the various firms. An index of articles only appears at the front of the book, referring by number to the page and paragraph, where further particulars are given.

The book is a most valuable one, and should find a place in every merchant's office. It is at the same time a splendid advertisement for Canadian industries, and very helpful in the export trade.

CHANGES IN CUSTOMS DUTIES.

New rates of duties have been decided upon by the Board of Customs on the following articles: Chilian mills for grinding clay, etc., 25 per cent; zinc, in rods, 25 per cent; machinery for drilling wells, 25 per cent; and soldering flux in a fluid state, 20 per cent.

H. S. HOWLAND, SONS & CO. LIMITED

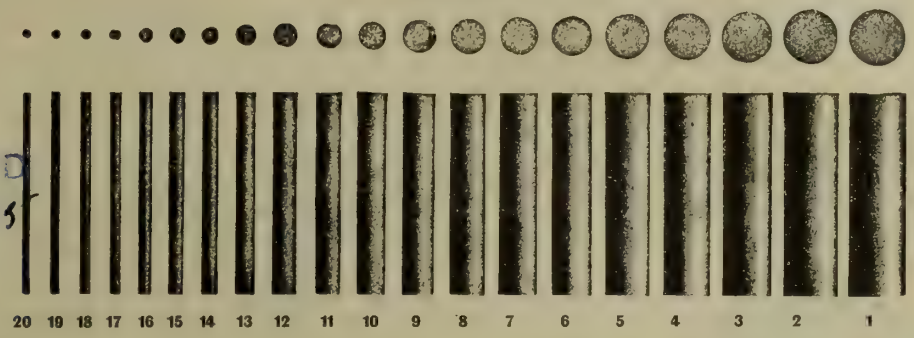
HARDWARE MERCHANTS

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Only Wholesale

WIRE



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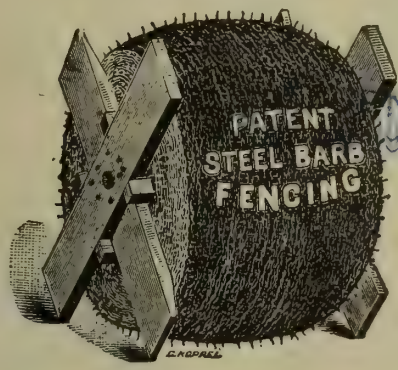
Tinners' Smooth Wire
Plain Galvanized Wire
Oiled and Annealed Wire

Annealed Hay Baling Wire
Coppered Iron Wire
Coppered Spring Wire

Copper Wire
Brass Wire
Stove Pipe Wire



2 Points, 5 in. apart
Galvanized

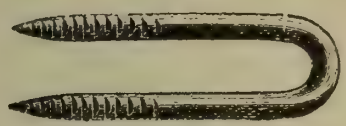




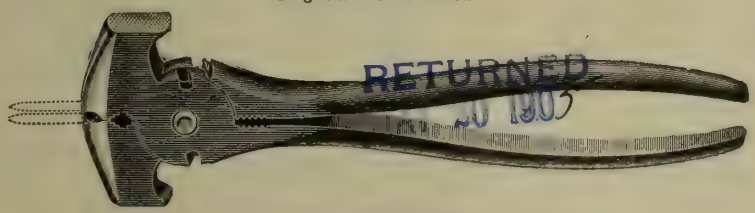
4 Barb, 4 in. apart.
4 Barb, 6 in. apart.
Galvanized



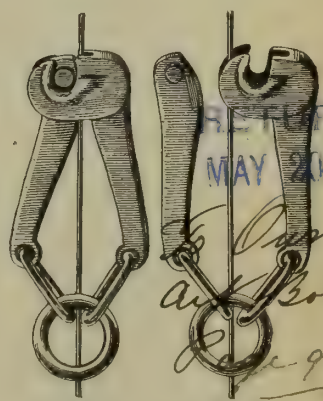
"Hercules" Wire Stretchers



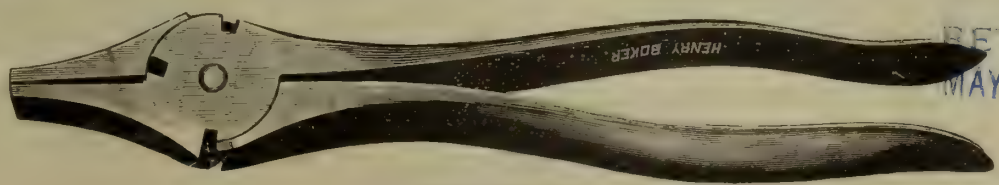
Barb Wire Staples
Bright and Galvanized



The Hercules Fence Plyers
Combining a Staple Puller, Plyer, Wire Cutter, Hammer and Wire Splicer.



The McCoskey Wire Stretcher



Boker's Fence Plyers

For a fuller line of Wires and Fencing Tools see our Hardware Catalogue.

H. S. HOWLAND, SONS & CO., LIMITED, Toronto.

We Ship Promptly.

GRAHAM NAILS ARE THE BEST.
Factory: Dufferin Street, Toronto, Ont.

Our prices are right.

HEATING AND PLUMBING

EVOLUTION IN CLOSET SEATS

THE placing on the market of the "Naturo" water closet and bowl draws attention to the process of evolution as it applies to this type of sanitary appliances, the "Naturo" undoubtedly illustrating the most practical and up-to-date innovation in this line. In their printed literature the Naturo Co. contend that in its essential features there has been absolutely no change in the water closet since the "inside" idea was first conceived.

Some time about the eighth century a species of "inside" water closet, approximating our own modern "bathroom," was first used. It was a sort of flue, open at top and bottom, built out into the room (presumably in the second storey), and the top or edge was 17 inches from the floor.

During all these centuries the evolution has been in the type of fixture, developing into the modern porcelain bowl water closet in general use to-day, but the uniform height has remained at 17 inches, the size probably made to fit one of the giant barons of a thousand years ago. Physicians and surgeons have long known that the high, horizontally seated water closet in common use was not the proper thing—it did not permit a "natural" position; hence the use in hospital practice of the "stooling pan," which permits a most "natural" position, to be sure, but which manifestly is not adapted to general use.

A "natural" position at stool permits a perfect and complete evacuation of the intestines, and to explain this fact it will be necessary to go somewhat into details. The long intestine, or descending colon, is the reservoir for excreta, and in order that a perfect evacuation may be secured it is necessary that the normal position be preserved while at stool. This is practically impossible, owing to the horizontal plane and height of the old-style closet seat, the inclination to throw the body forward and rest the elbows on the knees causing a constriction or "kink" in the long intestine near its upper end, thus holding a portion of the excreta therein and preventing a complete evacuation.

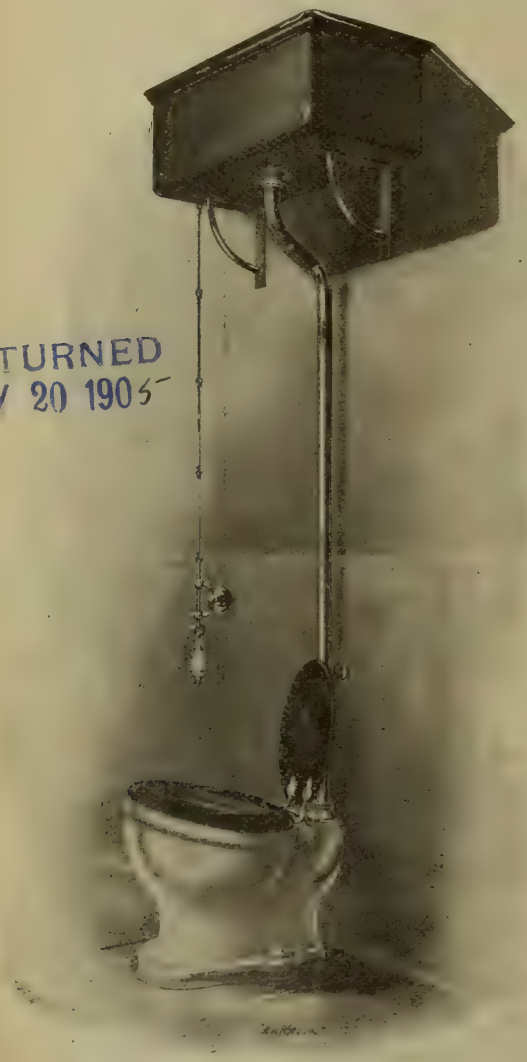
Abdominal pressure, exerted externally in the effort to force a complete evacuation, only accentuates what may best be described as the "kink," and a residue is left in the reservoir, from which result many complications which cannot be ignored. The fact of the "stooling pan" shows that the physician and surgeon do not ignore them.

The residue of excreta, held in the long intestine, as above described, is allowed to coagulate and harden, pending the next evacuation, and, as nature wastes nothing, the excrement in the long intestine is charged with just sufficient moisture for its own volume; hence does not communicate any such to the remnant it may find from the previous action, and this is the cause of what we term "constipation" and various other terms.

If allowed to remain too long, this "plug" (if the term may be permitted) can only be removed by the use of a laxative, a purgative, or, as is very often the case, an injection.

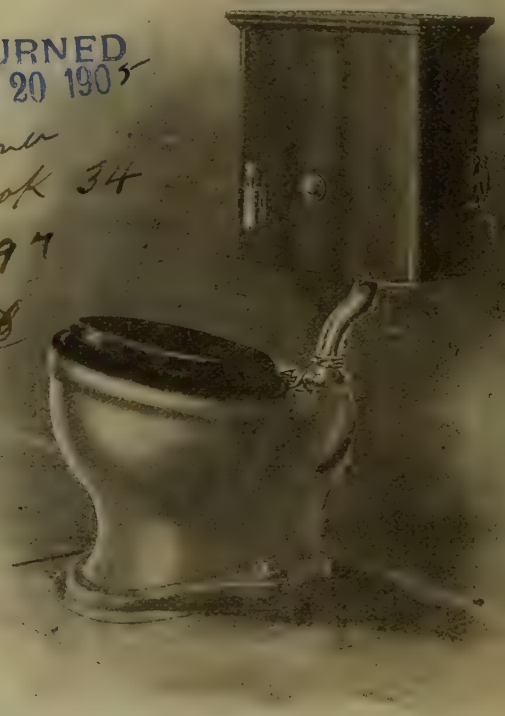
Now, a little thought will show that if the long intestine is not "kinked" as it is in the use of a high, horizontally seated closet, a perfect evacuation must result—there will be no "plug" to interfere with subsequent stools, and a corresponding benefit must be derived.

RETURNED MAY 20 1905



Naturo Closet, with High Tank and Flush Pipe.

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To Owner
Cut Book 34
Page 97



Naturo Closet, Special Seat, with Low Tank.

The Standard Ideal Sanitary Co. Limited

MANUFACTURERS OF

Porcelain Enamel Bath Tubs Lavatories Sinks Slop Hoppers

"MADE IN CANADA."

Write us at once if you want to secure

A CATALOGUE

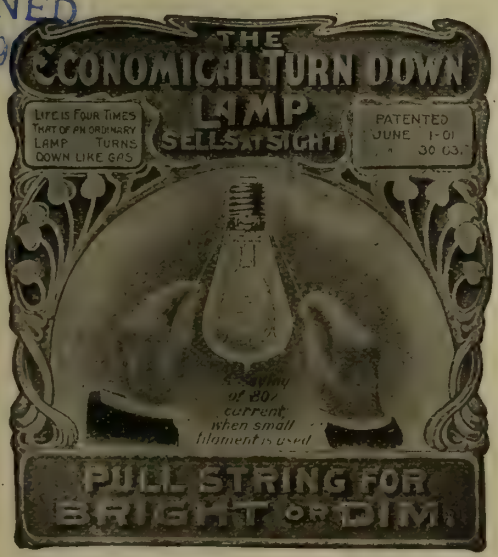
of the latest designs of **Porcelain Enamelled Bath Tubs, Sinks, Urinals, Latrines, Etc.**

Now ready for distribution and will be mailed on application.

THE ONLY MANUFACTURERS OF ENAMELLED WARE IN CANADA

Head Office and Factory:
Port Hope, Ont.

Sales Office:
50 Colborne St., Toronto.



The Economic Electric Lamp

Irrespective of its value as a saver in Electric Light Bills, the advantage of being able to get a subdued electric light is frequently a great boon.

Invaluable in Sick Rooms, Hospitals, etc.

TRY ONE—Send 75 cents for a sample, post paid.

Manufacturers of Gas and Electric Fixtures.
Write for prices on Sockets and Electric Holders.

HIGH-GRADE

Plumbers' and Engineers' Supplies



J.M.T. Cushion Basin Cock

Enamelled Baths and Lavatories, High and Low Tank Closet Combinations, Sinks, Boilers, Wash Tubs.

Use J.M.T. Cushion Compression Bibbs, Bath and Basin Cock—They Last.

Iron and Brass Valves and Cocks, Injectors, Lubricators, Oil Cups, Steam and Vacuum Gauges, Engineers' Clocks, Improved Water Gauge Mountings, etc.

THE JAMES MORRISON BRASS MFG. CO., Limited, TORONTO

RETURNED MAY 27 1905

The Naturo closet bowl, by reason of its low elevation, makes it impossible to "kink" the long intestine, and the slope prevents wetting the seat. It provides a position just right for a perfect evacuation, its low, slanting seat making it impossible to bend the body sufficiently to form the intestinal "kink"


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An Ancient Inside Water Closet.

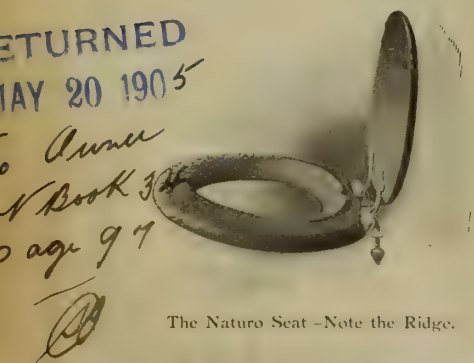
referred to, and through this very fact a position at stool far more comfortable than that now so commonly used is inevitable.

While the old style seat encourages the habit of throwing the body forward, on the Naturo the body assumes an erect and comfortable position naturally. Any one can prove this to their own satisfaction by inserting a stick between the bowl and seat of the ordinary closet sufficient to raise the seat an inch or so in the front. It must be remembered, however, that in this test the height of the seat from the floor will be increased rather than decreased, as the "Naturo" provides.

The Naturo seat also has a ridge at its rear edge, which prevents sitting back too far, and, with its raised front edge, makes hygienic perfection possible.

The physiological perfection of the Naturo idea makes it especially adaptable to nurseries and schools, its easy height being just the thing for children, and its use being certain to prove an aid to perfect and natural development.

Indicative of the rapidity with which


ETURNED
IAY 20 1905

The Naturo Seat—Note the Ridge.

the Naturo is winning its way into popularity, it is said that 600 have already been specified for new buildings in Canadian cities, while 1,800 plumbers in the United States, and 150 in Canada, have them in their show rooms already. The novel form of advertising adopted is responsible for much of this progress.

M. R. M. CO. TRADE MARK

TACKS

of all kinds, in all sizes and for all purposes.

CUT, CARPET, SHOE, TRUNK, CARRIAGE

and other kinds for special uses.

Quality counts in tacks just as in other lines.

When you order next time specify

M. R. M. Co.

TACKS

THE MONTREAL ROLLING MILLS CO.
MONTREAL, P.Q.

MANUFACTURER'S AGENTS.

IMPORTERS, ATTENTION

Save money by consigning your importations direct to destination and pay through freight charges only. Have your goods cleared and distributed by

Turnbull & Henderson

Customs Brokers, Forwarding and Distributing Agents
Vancouver, B. C. Satisfactory service given.

ALEXANDER GIBB

Manufacturers' Agent and Metal Broker,
13 St. John Street, Montreal

Representing British and American Manufacturers. Correspondence invited from firms wishing to be represented in Canada.

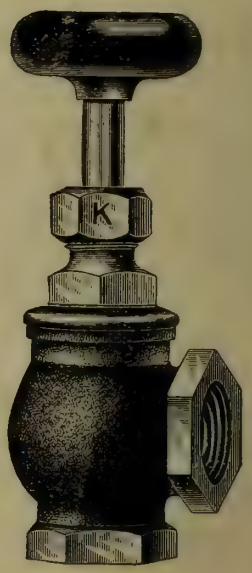
BRONZE POWDER AND LIQUID

is used by every steam-fitter. Ask your supply house for our goods for best results. Or, if they have not got them, write direct to

R. E. THORNE
768 Craig Street MONTREAL
29 Melinda Street TORONTO

North West Machinery & Iron Co.
LIMITED
WINNIPEG, Canada

The only exclusively Blacksmith Supply and General Machinery House in the Great Canadian Northwest.



Kerr's Standard and Jenkin Disc Radiator Valves

are perfectly constructed, and of beautiful design. Like all "Kerr" Specialties, strictly high-grade

The KERR ENGINE COMPANY
MANUFACTURERS Limited
WALKERVILLE, ONT., CANADA

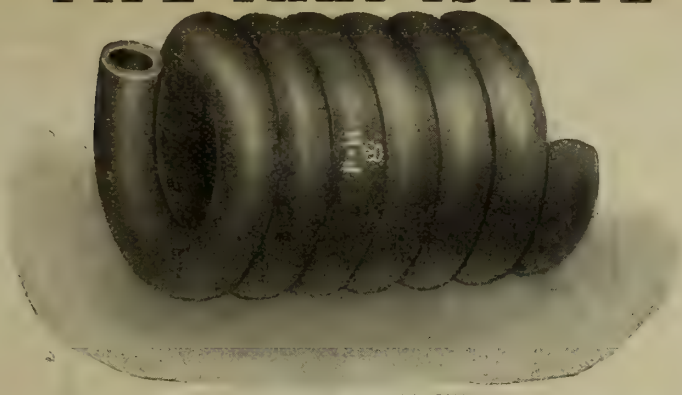
PIPE THAT IS PIPE

THIS IS OUR BRAND

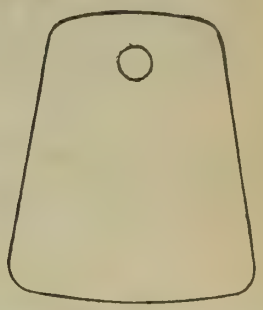
P-H

You Want It.

See that You Get It.



THIS IS OUR TAG



TAKE NO OTHER

BLACK AND GALVANIZED.

PAGE-HERSEY IRON AND TUBE CO., LIMITED, GUELPH, CANADA

TRADE MARK

This design a guarantee of quality.

FIBRE WRAPPING PAPER

STRONG, TOUGH AND STIFF

Will Carry All Kinds of Packages Safely to Destination

WRITE US FOR SAMPLES AND PRICES

CANADA PAPER CO.

TORONTO LIMITED MONTREAL

PRIEST'S CLIPPERS



Largest Variety, Toilet, Hand, Electric Power

ARE THE BEST.

Highest Quality Grooming and Sheep-Shearing Machines.

WE MAKE THEM.

SEND FOR CATALOGUE TO

American Shearer Mfg. Co., Nashua, N.H., USA

Wiebusch & Hilger, Limited special New York representatives, 9-15 Murray Street.

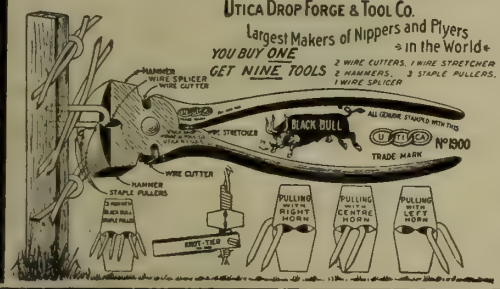
UTICA FENCE TOOL & BUTTON PLYER

UTICA DROP FORGE & TOOL CO.

Largest Makers of Nippers and Plyers in the World

YOU BUY ONE GET NINE TOOLS

2 WIRE CUTTERS, 1 WIRE STRETCHER, 2 HAMMERS, 3 STAPLE PULLERS, 1 WIRE SPLICER



UTICA BLACK BULL

THREE HORNED STAPLE PULLER

Has Three Strong Pulling Points.

Each Tool is Tested before leaving the Factory.

Fully Guaranteed.

Write for Green Book of Hardware.

UTICA DROP FORGE & TOOL CO.

296 Broadway, NEW YORK.

Canadian Office, 215 Coristine Bldg., MONTREAL, Canada.



JARDINE'S

Self-Feeding Boiler

Tube Expander

has case-hardened body. It will outwear any Expander on the market, and it's cheap.

A. B. JARDINE & CO.

HESPELER - - - ONTARIO

SPRINGS

For Clocks, Phonographs, Typewriters and Steam Drills—in any quantity

CATALOG MAILED UPON APPLICATION.

SEND SAMPLES OR SPECIFICATIONS FOR PRICES

THE WALLACE BARNES CO., - - BRISTOL, CONN.

GUARANTEED

5 5 5

YEARS | YEARS | YEARS

5 5 5

GUARANTEED



At the Same Price

Isn't it Best to use the Kind that are

GUARANTEED FOR 5 YEARS 5 YEARS 5 BY

GLAUBER, CLEVELAND, OHIO, U.S.A.



If You Want To

handle a good boiler, handle

THE ECONOMICAL HOT WATER BOILER

Nothing but good points.

SEND FOR BOOKLET

P. GIES, Founder, BERLIN, ONT.



RUN OVER THESE REASONS

Why You Should Immediately Adopt



THE NATURO CLOSET AND SEAT

IF YOU HAVE NOT ALREADY DONE SO

They have been proven superior to every other Water Closet.

From a sanitary point of view.
From the point of cleanliness.
From the fact that their peculiar construction assists nature to perform her functions properly.

They are becoming well-known and very popular.

They are approved of by School Boards, Architects, Doctors and many others of unquestioned authority.

They bring trade and money to the handler.

They advertise his business.

They are here to stay, and Now is YOUR Chance, before everybody handles them.

THE NATURO COMPANY
SALEM, N.J.

C. H. Muckenhirn,
President. 8

Plumbers who have not yet accepted the company's invitation in their advertisement in this journal, to send for a copy of the "Naturo Book," should do so at once, stating where the advertisement was seen. Letters should be addressed direct to the Naturo Co., Salem, N.J.

The Plumbers' Combine.

UNDER the above heading the Toronto daily papers have been publishing a series of sensational articles during the past two or three weeks, in reporting the case in the police court against Richard Crashley, an employe of the James Robertson Co., charged with conspiracy in restricting trade in refusing to sell plumbers' supplies to certain individuals, some of whom were building contractors, while others are said to have been plumbers who did not belong to the association.

When the case came up in the police court adjournments were made from week to week until finally witnesses were called at the end of last week and the investigation proceeded with. The evidence taken was distorted by the daily press in their efforts to produce sensational reading matter for the public, who crave for such articles. The facts are, however, that little evidence was produced to show that any conspiracy existed, representatives of the supply houses stating that they found it more profitable to deal with organized plumbers who made a fair profit and were good pay rather than others whose accounts were not so secure.

Secretary Meredith, of the Master Plumbers' Association, gave evidence that the association was organized to improve the standing and education of its members. It was better to work together than to fight each other and as a result of the organization the standard of work had been raised and the master plumber occupied a more responsible position in the community. In estimating on contracts members of the association figured on adding 25 per cent. to the actual cost of the material and labor, 5 per cent. of this going into the association's treasury and out of the balance the plumber had to pay the cost of conducting his business, rent, salaries, insurance, advertising, interest on capital invested, etc.

Magistrate Denison expressed himself as considering this to be a fair profit and everything to be open and above board; but, as the case was outside the jurisdiction of his court, and he did not desire to smother it, he would send it to the Grand Jury, so that it could be brought up at the next assizes and further investigated.

That there is little ground for the belief that the Toronto master plumber is rolling in wealth, it might be stated that with the exception of three firms, none are looked upon as being in affluent circumstances and fewer plumbers live in the brown stone fronts than representatives of other callings. And nowhere in America is a better class of work done by the plumbing fraternity than in this city. Without organization to govern the trade, members would be cutting prices, scamping work and public sanitation would suffer. Through the existence of the association, also, the supply houses find it easy to bring delinquents to time, and they naturally prefer to work in harmony with a body of men who pay their accounts rather than in working against them. Men must live, and if they cannot do it by making fair profits on work done, they are likely to do it out of the cost of material, the loss necessarily falling upon the supply houses.

Threats have been made of taking off the tariff on plumbing goods in order to encourage competition, but Hardware and Metal cannot see that the existing situation justifies such action, the investigation indicating that no combination exists to call for the need of this remedy.

Automatic Air Valve.

THE Norwall Mfg. Co., Chicago, are introducing for low-pressure steam heating an automatic radiator air-valve made entirely of metal, there being no expansion post, ring or spring. The expansive force is air. A double shell has the radiator connection so placed as to form a well in the inner shell to receive and retain the water condensation as it passes into and through the valve. A sealed metal float is placed in this well. The inner shell is surrounded by an outer shell, which forms an air-chamber, having a single outlet at the bottom, by means of which this air-chamber is connected with the inner shell or float chamber. The operation of the valve is always the same, whether the pressure is one pound or ten pounds. The greater the pressure the higher the temperature of the steam, but the only effect this has on this valve is simply to expel, by reason of its greater expansion, a little more of the air from the air-chamber. When steam goes off and the air cools, as the water in the first chamber can be expelled only to the outlet into the radiator, the contraction of the air in the air-chamber draws the water from the float chamber, then draws air through the water, until the chamber is fully recharged with air. When cold, the condition of the valve is always the same. No adjustment is necessary at any time.



Norwall Air Valve.

RETURNED
MAY 20 1905

A Well-known Plumber.

H. A. Knox, Ottawa, had his son, Wilfrid, at the Guelph convention of Master Plumbers. Mr. Knox says this will be a large building year in Ottawa, the new Government mint and museum being two large jobs in sight. The Saturday half-holiday, the growth of the city and the limiting of the number of apprentices by the union have all been factors in decreasing the amount of labor available. Owing to this scarcity Mr. Knox is tied up with work until next Winter. But Mr. Knox is not an opponent of labor organization, as he realizes that the logical outcome of organization is that union and association should meet and arrange trade conditions for mutual benefit. One result of the association's existence is the improvement amongst the members. Human nature likes to emulate, and organization encourages the less skilful to do better work.

Specialties for the Paint Trade

¶ During rush and hurry time in Paint and Varnish trade, you have many enquiries for this and that and the other thing.

¶ **Ramsay's Paint Specialties** are fully opened up and explained in our complete catalogue. Keep it handy. It will save you trouble when looking for things you want. Don't forget———

¶ **Ramsay's Complete Catalogue** for the rush at the painting season.

A. RAMSAY & SON COMPANY,

Est. 1842 MONTREAL The Paint Makers

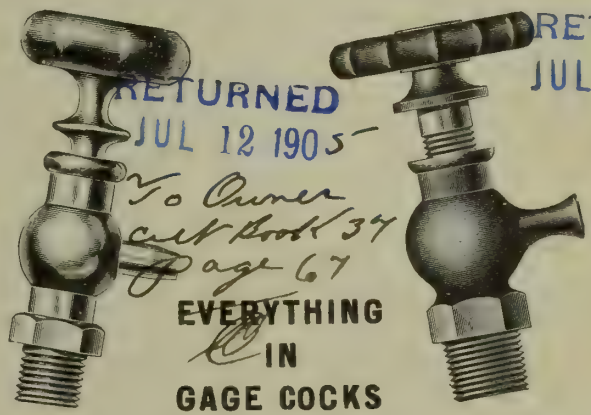
TRADE PENBERTHY MARK.

ALWAYS SPECIFY



OUR BRASSES

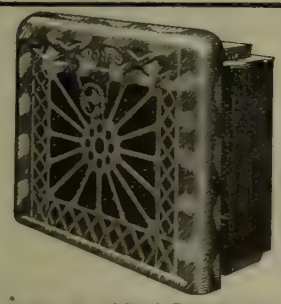
AUTOMATIC INJECTOR



RETURNED JUL 12 1905 To Owner Cash Book 34 Page 67

RETURNED JUL 12 190

EVERYTHING IN GAGE COCKS



A No. 12 JONES REGISTER
For second floor room. Bottom Collar fits 3¼x12 or No. 8 Wall Pipe.

ADVANCED METHODS OF WARM AIR HEATING

Is the title of our latest catalogue which illustrates and describes the

JONES SIDE-WALL REGISTERS, AND THE JONES SYSTEM OF WARM AIR HEATING



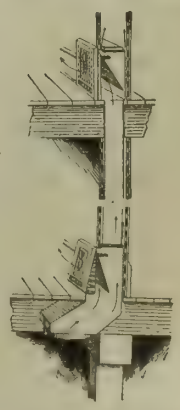
A No. 15 JONES REGISTER
For first floor rooms. Bottom Collar, 7x14. These Registers are fitted with a Top Collar which fits 3¼x12 Wall Pipe or a plate when used for heating one room on the first floor.

These Registers have been on the market since 1901 and are used by between five and six thousand of the best furnace dealers in Canada and the United States.

By the use of Jones Registers the efficiency of the furnace is **increased**; at the same time, the cost of installing furnace is **reduced**.

BE UP-TO-DATE AND USE THE BEST

There is included with each Jones Register, the register which is also a border, a double register box, a ventilator and a deflector. Wall pipes are two feet shorter and but one-half the number of basement pipes ordinarily used are necessary.



With Jones Registers but one-half the number basement pipes are necessary.

Manufactured by
THE JONES REGISTER CO.
295 College St., Toronto, Ont.

Manufactured for
MERRICK-ANDERSON CO.
Winnipeg, Man.

HOME OFFICE

THE UNITED STATES REGISTER CO.,

LIMITED

Burchard St. & D.T. & M.R.R., *BATTLE CREEK, MICH.*

OUR CATALOUE FREE ON APPLICATION

Plumbing Markets

Quebec.

Office of HARDWARE AND METAL,
232 McGill Street,
Montreal, May 19, 1905.

EVERYTHING in connection with the plumbing trade is in full swing, and as the season is well advanced the arrival of orders is becoming more frequent. The size of the majority of orders also shows that the master plumber is executing a large amount of contract work. Every order arriving calls for a general line of goods, in fact everything that is needed to complete a job. The demand is general, a large amount of orders coming from the Lower Provinces. If another heavy increase occurs it is feared that the local wholesale supply houses will find it difficult to ship all orders on time.

Range Boilers—We quote as follows: Iron clad, 30 gallon, $6, and 40 gallon, $7.50 net; copper, 30 gallon, $22; 35 gallon, $24; 40 gallon, $28. The discount on copper boilers is 15 per cent.

Lead Pipe—A good demand continues which is far in excess of the demand at this time last year. Prices are firm, although no advance is expected. We quote as follows: Discount 30 and 5 per cent. f.o.b. Montreal, Toronto, St. John, N.B., and Halifax; f.o.b. London, 15c. per hundred lbs. extra.; f.o.b. Hamilton, 10c. per hundred lbs. extra.

Iron Pipe Fittings—The conditions which were prevalent on this market a week ago still continue unchanged. Discount on all sizes of nipples up to six inch, 67 1-2 to 70 per cent.

Iron Pipe—Local manufacturing plants find it somewhat difficult to keep up with the present demand. The demand is so great that some people, while estimating the sales this Spring, state that they are almost double the sales for a like period last year. Although the demand is very great and the cost of material has increased during the past few weeks, no change is expected to occur in the price list. We quote: Standard pipe, in lots of 100 feet, regular lengths, 1-4 inch, $5.50; 3-8 inch, $5.50; 1-2 inch, $8.50; 3-4 inch, $11.50; 1 inch, $16.50; 1 1-4 inches, $22.50; 1 1-2 inches, $27.00; 2 inches, $36.00; discounts on black pipe, 1-4 inch, 62 1-2 per cent.; 3-8 inch, 62 1-2 per cent.; 1-2 inch, 72 1-2 per cent.; 3-4 inch, and upwards, 74 1-2 per cent. Discounts on galvanized pipe: 1-4 inch, 47 per cent.; 3-8 inch, 47 per cent.; 1-2 inch, 62 per cent.; 3-4 inch and upwards, 64 per cent. Extra heavy pipe of 100 feet lots are quoted as follows: 1-2 inch, $12.00; 3-4 inch, $15.00; 1 inch, $22.00; 1 1-4 inches, $30,00; 1 1-2 inches, $36.00; 2 inches, $50.00. The discount for black pipe is: 72 1-2 per cent., and for galvanised, 61 per cent.

Soil Pipe and Fittings—A good demand still continues on this market. In fact so great is the demand that some dealers are looking forward to another advance similar to that which occurred last week. The market, although steady, is very firm, and an advance may occur at any time. Standard soil pipe, 50 per cent. off list. Standard fittings, 50 and 10 per cent. off list. Medium and extra heavy soil pipe 60 per cent off. Fittings 60 per cent. off.

Ontario.

Office of HARDWARE AND METAL,
10 Front street east,
Toronto, May 19, 1905.

CONTINUED activity in all lines is reported by the local supply houses, business being exceptionally good in the rural districts, while a large volume of business is being booked from western points, Edmonton, Port Arthur and other towns experiencing a building boom, and the consequent effect being the placing of large orders. Full outfits are being ordered in quantities, and the fact that both finishing up and roughing in goods are ordered in equal quantities indicates that building is well advanced in most sections. So far the wholesalers have been able to handle the orders without allowing them to fall behind in shipment. The active demand causes the market to continue steady, with prices firm, no changes being reported.

Lead Pipe—The demand is active, and large quantities are being purchased at steady prices. We quote as follows: Lead, 7c.; lead waste pipe, 8c.; discount, 30 and 5 per cent.

Soil Pipe and Fittings—Prices are firm and demand continues active. We quote: Medium and extra heavy pipe and fittings, 60 per cent.; 7 and 8 inch pipe, 40 and 5 per cent.

Iron Pipe Fittings—Large business is reported as being done by the jobbers, prices continuing strong. Our quotations are as follows: Malleable fittings 20 to 25 per cent. for American and 35 per cent. for Canadian; cast iron (standard), bushings, 65 per cent.; headers, 60 per cent.: flanged, unions, 60 per cent.; lipped unions, 60 and 5 per cent.; malleable bushings, 60 per cent.; nipples up to 6 inch inclusive, 75 per cent.

Copper Range Boilers—A large volume of business is reported at firm prices. The discount of 15 per cent continues.

Galvanized Iron Range Boilers—Very many orders are being received, building under construction being well advanced. Quotations are unchanged as follows: 12 gallon capacity, standard, $4.50; extra heavy, $6.50; 18 gallon, standard, $4.75; extra heavy, $6.75; 24 gallons, standard, $4.75; extra heavy, $6.75; 30 gallon, standard, $5; extra heavy, $7.50; 35 gallons, standard, $6; extra heavy $8.50; 40 gallons, standard, $7; extra heavy, $9.50; 52 gallons, standard, $11; extra heavy, $14; 66 gallons, standard, $18; extra heavy, $20; 82 gallons, standard, $21; extra heavy, $24; 100 gallons, standard, $29; extra heavy, $34; 120 gallons, standard, $34; extra heavy, $40; 144 gallons, standard, $47; extra heavy, $55.

Iron Pipe—Purchases are being made actively, the same quotations ruling. Our quotations are as follows: Black, 1-4 inch, $2.03; 3-8 inch, $2.06; 1-2 inch, $2.29; 3-4 inch, $2.87; 1 inch, $4.12; 1 1-4 inch, $5.62; 1 1-2 inch, $6.75; 2 inch, $9. Galvanized, 1-4 inch, $2.86; 3-8 inch, $2.89; 1-2 inch, $3.14; 3-4 inch, $4.02; 1 inch, $5.77; 1 1-4 inch, $7.87; 1 1-2 inch, $9.45; 2 inch, $12.60.

Solder—Prices continue firm with an active demand. Bar solder, half and half, guaranteed, is quoted at 19c.; wiping solder at 17 3-4c., and refined 18c.

Enameled Ware—Demand is active. Orders are being placed with the jobbers in large quantities. The new quotations on Canadian ware are as follows: Baths, rolled rim, 5 feet, 2 1-2 inch rim, 1st quality, $17.50, special, $15.50; 3 inch rim, 1st quality, $19.00, special, $17.00; 5 1-2 feet, 2 1-2 inch rim, 1st quality, $19.00, special, $15.50; 3 inch rim, 1st quality, $20.50, special, $18.50. Lavatories, discounts 30 to 40 and 5 per cent. Sinks, 18 x 30 inch, flat rim, 1st quality, $2.45; special, $2.

NEW JOBBING HOUSE.

Mr. Emmerson, of the firm of Wells & Emmerson, Port Arthur, has been a visitor in Toronto for several days purchasing a large stock of plumbing supplies for his firm, who are branching out and in future will do a jobbing business in this line.

Wells & Emmerson have one of the finest hardware stores in Canada, and Hardware and Metal will publish photos of the interior of their store at an early date. They are also pioneers in the heating and plumbing line and the marvelous growth and bright prospects of the twin cities at the head of the lakes have warranted them in taking the advance step noted. There are a number of plumbers in Port Arthur and Fort William, but none are able to buy supplies in car load lots and the jobbing house will, therefore, prove a great convenience to them. The high freight rates will be overcome to a considerable extent by the move.

Toronto is the natural supply market for these cities as goods can be shipped by water at low cost. To buy in Winnipeg freight must be paid twice on the several hundred miles between the lakes and the prairie city.

Mr. Emmerson is enthusiastic as regards the future of Port Arthur and Fort William and looks forward to the day when both towns shall be combined into one great city, the location of the Grand Trunk Pacific shops and the new blast furnace being only the corner stones of the great structure to be erected in the future.

SHEET BRASS AND COLD ROLLED COPPER

We are now fully equipped and can fill all orders for these metals.
Send us specifications of your requirements. Write for our Discount Sheet.

CANADA BRASS ROLLING MILLS, LIMITED

Mills: NEW TORONTO, CAN. *Head Office: 98 King St. W., TORONTO*

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Opalite
Royal Oak
Imperial
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Sanderson-Harold Refrigerators

are unequalled for
General Appearance, Style
and Construction

If you want the best you must carry our line.

Write for Catalogue. It will pay you.

SANDERSON-HAROLD CO., Limited
Manufacturers of
Refrigerators, Screen Doors and Windows
PARIS - - ONTARIO

Most Modern and Economical Heating Apparatus

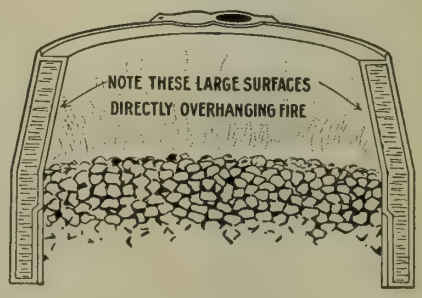
The Oxford Hot Water Boiler has proven, in actual use, to be the most satisfactory and economical heating apparatus yet produced.

The ash-pit gives great depth for accumulated ashes and, when ordered, is fitted with an ash-sifter which separates the good coal from the dead ashes, thus saving much fuel that is ordinarily thrown away.

The triangular revolving grate is hollow, allowing immense air-space without permitting live coals to drop through. Dead ashes, clinkers, etc., are sharply cut off by a turn of the grate. When it is desired to dump the grate, a few extra turns does it completely.

The diameter of the fire-pot is greater at the top than the bottom, preventing an accumulation of ashes around the most active part of the boiler. Above the level of the fuel the walls of the fire-pot overhang the fire, giving great surfaces to the direct rays of heat.





The first water section is double the depth or thickness of the others, with bell-shaped flues, giving an extra surface against which the fire sharply impinges.

No rubber to rot and leak. Steel push-nipple joints throughout.

We would like to send you our illustrated catalogue explaining the Gurney Oxford Steam and Hot Water Heating apparatus. Write for it. It is free.

The Gurney Foundry Co., Limited

TORONTO WINNIPEG VANCOUVER

The Gurney-Massey Co., Limited, Montreal.
The Gurney Standard Metal Co., Limited, Calgary, Alta.

— ALUMINUM —
THREE-GALLON TEA POT

YOU WANT THE BEST



ALSO MADE IN
6, 9 AND 12 CUP SIZES

WE MAKE THE BEST

Aluminum utensils take and retain the heat better than any other kind.

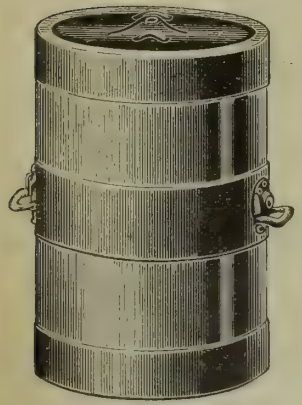
Aluminum does not rust, no danger of poison, does not taste the coffee, and can be set on the stove without any detrimental effects to either the coffee or the pot.

MADE BY

CANADIAN ALUMINUM WORKS, LIMITED

Catalogue on Application. CHAMBLY CANTON, QUE.

GREEN GRASS GOODS



"SAMSON"
Milk Cans



"SAMSON"
Hand Delivery Cans



"SAMSON"
Railroad or Delivery Cans

MADE ENTIRELY FROM "SAMSON" TRIMMINGS

We can fill all orders for these goods the same day they are received.

The McClary Manufacturing Co.

LONDON, TORONTO, MONTREAL, WINNIPEG, VANCOUVER, ST. JOHN, N.B. HAMILTON

"Everything for the Tinshop."

HARDWARE AND METAL

President:
JOHN BAYNE MACLEAN,
Montreal.

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Publishers of Trade Newspapers which circulate in the Provinces of British Columbia, North-West Territories, Manitoba, Ontario, Quebec, Nova Scotia, New Brunswick, P.E. Island and Newfoundland.

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NEW ADVERTISEMENTS :

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COMMERCIAL TRAVELERS' TAX IN BRITISH COLUMBIA.

THE policy which has been adopted in British Columbia of restricting interprovincial trade by means of a tax on commercial travelers has been carried to its logical conclusion by the Town of New Westminster. According to the Trades' License By-law all travelers taking orders for clothes to be made outside the city must pay a license of $50, and hereafter this regulation will be strictly enforced. The representative of a Vancouver house was the first to suffer and was summoned to appear in the police court for his neglect to pay the amount specified. He had to promise to pay the license before the charge was withdrawn.

We may be uncharitable in our view, but it looks like a particularly timely example of Nemesis that a British Columbia house should be compelled to swallow the medicine which it has itself been forcing the wholesalers of the other provinces to drink. The unfairness and selfishness of the western province in its commercial tax legislation has been already condemned. The citizens of the province will now have a chance to see what their disintegrating policy will eventually lead to. The picture of every town in the province erecting a prohibitive protective wall around itself and closing off commerce from all its neighboring towns is decidedly medieval. Its tendency is directly opposed to the unity and strength of the country as a whole. Such local prosperity as may be developed under the New Westminster system is got at the expense of the townspeople themselves. It is the consumer who pays.

GOOD BUYING.

GOOD buying is no less important than good selling. The profit on a year's business often represents the margin made by taking advantage of the best market for each individual purchase. By skillful buying the selling price can be made so attractive that a quick turnover of stock is assured. Good merchandising does not consist in making big sales from a big stock, but in making big sales from as small a stock as will permit of giving efficient service. There is no good purpose subserved in doing a big business, if the merchant has to have so much money tied up in his stock that his profits, great as they may be, just pay interest on his investment.

If the markets are carefully watched and the demands of his trade systematically studied, a retailer should be able to get the best results out of a fair investment. The trade paper will keep him posted on the one and his daily experience should provide him with the facts on the other.

There are two extremes to be guarded against in buying. The one is overstocking. By this a man is prevented from keeping his stock as well assorted as he should in those lines which prove most popular. He has laid in such a large and varied supply that he cannot afford to encourage the sale of what customers really want, for it would mean the shelving of his present stock. Full advantage cannot be taken of the passing fancies of the people and the stock continues to grow. The other thing to be guarded against is the living from hand to mouth, which is just as disastrous to good retailing. There are times when a staple is manifestly low in price. The acute merchant will seize that time to lay in a future supply, whether his present wants require it or not.

It is by watching these things, buying when the market is advantageous and keeping the stock within fair bounds, that successful business is accomplished. Competition is too keen to allow the old free-and-easy methods of buying and selling to continue. The man who can buy for a fraction less than his rival and whose yearly sales are in a proper proportion to his investment, is the one who will survive.

JUNE WEDDINGS.

SOME time ago Hardware and Metal drew attention to the approach of the honeymoon season and urged that merchants endeavor to secure a share of the trade in wedding presents which develops when the wedding season is on.

Silverware is one of the most common of presents, and a fair profit can be made by the live hardwareman who carries a well-selected stock and draws attention to it by announcements in the local papers. An attractive window display of cutlery and plated flat ware should also prove a good drawing card, while another window might be shown dressed with kitchen utensils such as will be required by the married couple after the honeymoon is over. A list of these goods, together with an estimate of cost, is found a good point by the departmental store advertisers.

The hardware merchant carries cutlery as a staple line, and flat ware is really more in his line than it is the jeweler's. The same argument applies to hollow ware, as the hollow enamelware, etc., is no more a household need than many of the hollow silverware lines, and the hardware store is the natural home furnishings supply depot.

Travelers will soon be on the road showing samples for next Fall and Winter's trade, and the placing of an order for a line of silverware is something that should receive the earnest attention of each hardware merchant.

RECIPROCITY IN COAL.

LORD BEACONSFIELD pointed out many years ago that a country's greatness had every dependence on a cheap source of coal, and this has come to be a popular belief throughout the world. "Without coal, without manufacture," has been true in the past and still holds, although to a somewhat less extent since the development of electrical transmission. In Ontario, in spite of our water powers, the coal requirements are as yet proportionately as great as in other countries, and any reduction in the cost of this commodity is that much of a boon to manufacturing industries. The duty of 53c. a ton reacts against our manufacturers, and places the centre of coal supply practically one hundred miles further away. If we are to become a great manufac-

turing country fuel must of necessity be available for this purpose at the lowest possible cost.

As far as the question of a general reciprocity treaty between Canada and the United States is concerned, there is seemingly little desire for such; but at the same time it is mutually agreed that there are lines upon which reciprocal arrangements would be to the advantage of both parties. There is no commodity to which this would refer more than to coal passing between the two countries. The consideration of a treaty for the free interchange of coal would be an advance in the direction of more satisfactory trade relations between the two countries.

It is contended that the duty of 53c. a ton works to the advantage of the Nova Scotia coal mines in securing the Ontario market, but it has been found from experience that Montreal is the furthest western point at which the Canadian maritime coal mines can compete with Pensylvania. One or two shipments of coal were made as far west as Smith's Falls by way of experiment, but it was found that the heavy transportation charges brought the price beyond that of the Amercian product. It is found further that the Montreal market is open for the successful placing of Canadian coal on account of the fact that it is brought direct by ocean freight in large boats—the latest, the James Ross, having a capacity of 6,500 tons—but further west of the head of St. Lawrence ocean traffic, transportation charges increased very rapidly. This is on account of the fact that coal must be transferred to small boats and carried in comparatively small consignments with a rapid increase of cost ratio. The natural market of the Nova Scotia coal mines is the New England States, where a larger per cent. of the output would be absorbed than could be hoped for from Ontario, whose geographical situation is against its using Nova Scotia coal.

The Dominion Coal Co. is placing coal at the pier at Boston for $3.23 per gross ton, while Pennsylvanian coal costs $3.15 delivered at the same place. Remove the duty on the Canadian article and the New England market is opened up at once to Canadian coal.

In Ontario manufacturers pay about $2,000,000 annually in coal duties, and to what purpose? Supposedly to protect our coal mining industry, which it does not do. They are thus handicapped in the cost of output, with this additional expense to manufacture, which it seems logical and fair to contend should not be.

Reciprocity in coal would do away with this burden, would place the Ontario manufacturer in a better position, would give the New England manufacturer cheaper fuel and would enable the Canadian coal mines not only to hold their present market in Quebec and the Maritime Provinces, but also to secure another many times larger than they have at present.

YOUNG MEN REMAINING IN CANADA.

HERETOFORE when the Spring exodus of engineering graduates from our Canadian universities was at hand it meant, with the large majority, their leaving Canada and taking up positions in the United States. In this way we were losing the greater part of a stock that, remaining, would be a dominant factor in building up the nation, particularly in a country in which the engineering possibilities were as ample and varied as in this. Seeing no immediate prospects here, and being offered inducements by our southern neighbors, the young engineer, following the line of least resistance, accepted what was offered, thinking, perhaps, to return some day, but in nine cases out of ten ultimately becoming a part of the republic. This is equally true of young men in other walks of life as well. Thus Canada has been rearing vigorous, brainy sons, educating them in her public and high schools and colleges after a system unsurpassed by any in the world, while Uncle Sam, keen and astute, has reached out and reaped the benefit. This is well shown in the number of high-class positions now occupied by Canadians in his domain. The cause of this lay not only in the fact that there were openings there for young men of this country such as could not be hoped for here, but also that the true worth and hardihood of the Canadian young man was fully appreciated, while at home such was not the case. It was the same old story of the prophet being not without honor save in his own country.

A change has been taking place slowly but effectively, and more noticeable this year than heretofore, with new-fledged engineers, at least, in which the young man is not seeking scope for his energy and ambition elsewhere but finding and realizing prospects before unavailable. He is beginning to feel that in this country his chances are better, his outlook brighter and his ultimate hopes for the greatest success of far greater measure than in other countries. Without feeling the thrill of the patriot when swearing loyalty to his native land, although possibly some few may be thus influenced, he finds the time has come when he can remain at home and take a position at least satisfactory for the present and offering all things for the future.

The engineering graduates just recovering from the shock of recent examinations and brought face to face with the material world have more cause to be thankful than their predecessors. With other years in the majority of instances it was a case of his seeking distant fields for his labors and giving another country the benefit of his training, but this year few will go beyond our own boundaries. So great has been the industrial development both in the mechanical and electrical trades, railroad and other construction, that the demand for mechanical, electrical, civil and mining engineers, has been greater than the supply. The construction of the Grand Trunk Pacific has called for a large force of engineers for various positions and later a permanent corps of divisional engineers will be needed. The prairie division of the G.T.P. requires men at present, many positions being still open. The growth of the country is absorbing the class of young men who formerly left our confines, and this in itself, apart from any feature of expansion and development connected therewith, should be a gratifying feature to Canadians.

RAILWAY DISCRIMINATIONS.

THE recent report of the Ontario Railway Commission favoring the taxation of railway property brings up an important subject for consideration during the present session of the Ontario Legislature. It is necessary that every section of industry should bear its fair share of taxation, regardless of whether the interests are corporate or private. For years the railways have escaped the payment of taxes upon their productive property, while the small business man has been paying his own share as well as that of the shirkers.

Another question of importance is that of discrimination in freight rates. Every merchant knows of cases where favor has been shown certain interests or sections of the country to the disadvantage of others. Only this session has it been up for discussion in the House of Commons. A short time ago a mass of evidence was produced to show that the rates on agricultural products leaving the country were arbitrary, and on many products excessive. The rates on commodities were dealt with. The export rates on these manufactured articles

were found to be from 50 to 60 per cent. higher than the import rates—that is, the American or other foreign manufacturer could send goods to Canadian customers over Canadian railroad lines at rates 40 to 50 per cent. below those exacted from the Canadian manufacturer. Members from the Northwest have also had something to say about freight rates there

SIGNS ON STORES.

THE complaint is heard from time to time that country merchants do not pay sufficient attention to advertising their place of business as such to the casual passer-by; that very often they have no business sign at all in front of their stores, and when they can boast of one it is more likely than not to be so weather-beaten as to be unintelligible.

Such a state of affairs is entirely without reason. A merchant may manage to eke out a living from the trade in his immediate vicinity, even supposing the general public are ignorant of the fact that he is in such and such a place to do business. But can he be said to be serving the community in the truest sense when he has not enough interest in probable customers to keep them enlightened as to where they may find "John Smith's" hardware store?

No enterprising merchant would think of leaving himself liable to such a charge, and, as a matter of fact, the number of tradesmen in this country who have is very small. The minority deserve to be reminded that in failing to serve the consuming public they are neglecting their own interests, and in these days no live grocer can afford to lose sight of a single one of the many ways of attracting trade, to say nothing of neglecting to advertise his place of business by means of a conspicuous sign-

THE INTERDEPENDENCE OF BUSINESS.

FEW merchants realize just how much the success of their neighbor's business influences their own business. They seem to imagine that the welfare of their business depends entirely on their own exertions. They consequently become narrow in their outlook and adopt a don't-care attitude towards their neighbor and his interests.

As an example of this, take the connection between the sale of books on flowers and the sale of flower seeds. The bookseller across the street makes a sale of a book on flower gardening to a man who has hitherto never had his attention drawn to or his interest awakened in this agreeable pursuit. He takes the book home, looks over the illustrations and conceives a desire to surround his home with plants and flowers. He reads the book and learns how to cultivate flowers successfully. Next day he will probably enter a store and buy a selection of seeds.

Did the latter sell those seeds? In a way he did, but it is much more probable that the bookseller across the way actually sold them. It was through his good salesmanship that the aforementioned man bought the book.

Now, a moment's reflection will suffice to call up a number of examples similar to this, all of which teach the important lesson of the interdependence of business in any town or city. But some doubter may say: It is all very well to make this proposition about firms which do not compete; how about competitors?

Regarded from certain standpoints, of course, the proposition is not true. Jones' success may mean Smith's failure; but then, again, this does not always follow. Jones may be able through good salesmanship to persuade a customer to substitute a better and more expensive brand of tea for what she has hitherto been using. His profits are increased and his business is more successful. The customer dilates on the excellence of the new tea to her neighbor, who patronizes Smith. The neighbor is led to order this new tea from Smith and Smith profits, also; but did he make this gain through his own efforts? Not at all; the exertions of Jones brought it about, and to Jones must be accredited all the gain that ensued.

It may be taken pretty well for granted that the progress of one firm reflects on neighboring firms, and if they prove alive to their opportunities they can share in the accruing advantages.

KEEP DOWN EXPENSES.

THERE are certain fixed expenses in every store and on the ratio of these to the receipts depends the success or failure of a business. Expenses of stock are not included in these. Such expenditures are only made as the sales demand. In a well-ordered store, the higher these run the higher the receipts run. The expenses which eat up the profits are the small ones which in themselves bring in no return. Lighting, heating, care of buildings, etc., are all fixed. They do not necessarily vary with the amount of business done. It should be the merchant's object to reduce these as much as possible, consistent with giving the best service. Watch the petty expenditures. If you have money to spend put it in the store or in permanent fixtures. Do not fritter it away on unnecessary trifles.



Robert Horne's Hardware Store at Sudbury.

A SUDBURY STORE.

THE cut shown herewith illustrates the new store recently opened by Mr. Robert Horne at Sudbury. As will be seen, considerable taste has been used in arranging the goods to be shown to customers while still allowing a fair amount of floor space around the counters and goods. The large stock carried shows the business to be one in keeping with such a wealthy district as surrounds Sudbury. Mr. Horne is a pure-blooded Scotchman, with his eye always open for the main chance, the kind of men needed in the growing sections of this growing country. He was formerly connected with Purvis Brothers, of Barrie and Sudbury, but commenced business for himself eight or nine years ago, and to-day has one of the nicest stores in New Ontario, the store having just been opened for business in December last.

MARKETS AND MARKET NOTES

(For detailed prices see Current Market Quotations, page 58.)

Quebec Hardware Markets.

Office of HARDWARE AND METAL,
232 McGill Street,
Montreal, May 19, 1905

DURING the week, according to the remarks of a fair majority of the wholesale dealers, trade has become a little quieter, and the supposition is that trade has, after the unusual rush caused by the increased Spring demand, assumed its natural gait. Although quieter, the trade is still far from being dull, and numerous orders of good size have been received during the past few days. The orders which are now being received are well assorted, and in nearly all cases call for immediate shipment. Tools for garden and harvest use have an excellent demand. The sale of garden hose, lawn mowers, and other lawn utensils has been very good, it being greatly in excess of last year. This change is especially noticeable in cities and large towns. The demand for building paper has increased during the week, as has also all other hardware specialties and material needed in the construction of a building. Carpenter's tools still continue to have a good sale. Prices are all firm, but no advance is anticipated, in fact, they are expected to remain steady during the entire length of the season.

Axes—No change has occurred in the prevailing conditions of a week ago. Prices continue unchanged. We quote: Chopping axes, unhandled, $6 to $9.50 a dozen; double bitt axes, $9.50 to $12 a dozen; handled axes, $7.50 to $9.50; Canadian pattern axes, $7.50 a dozen.

Handles—There is a fair demand for handles. Prices are firm, but no advance has occurred. We quote as follows: Axe handles, No. 3, $1.25; No. 2, $1.50; No. 1, $1.90 a dozen; adze handles, 34 inch, $2.20 a dozen; pick handles, No. 2, $1.70; No. 3, $1.50 a dozen.

Sewing Machines—There still continues to be an excellent demand for sewing machines. Trade has a very bright aspect, and the fact that good prices have been obtained in the majority of sales made this Spring, places it in a position which has not hitherto been obtained for a number of years. Prices remain the same. We quote: Hand sewing machines, $11 each net; complete machines with stand, $18 and up, according to quality.

Lanterns—Retail dealers still hold off from purchasing, and it is expected that trade will remain quiet until it has been definitely made known regarding a likelihood of an advance on present prices. We quote the following: Cold Blast, $4.50 No. 0 Safety, $3.50.

Barb Wire—A slight decrease in the number of orders has been noticeable during the week, and it is supposed that retail merchants are well stocked up. Prices continue unchanged. Our quotations are as follows: $2.75 for 100 lbs. f.o.b. Montreal; $2.37 1-2 f.o.b. Cleveland. Carlots of 15 tons, $2.25 f.o.b. Cleveland.

Fence Staples—Conditions similar to those existing in connection with barb wire are also prevalent on this market. Prices continue unchanged. Our quotations are: $2.65 per 100 lbs. keg, for bright, and $3 for galvanized; 25 to 50 lb packages 25c. extra.

Rivets and Burrs—Trade has been steady during the past week, and good-sized orders have been arriving quite freely. Prices continues to be firm, although there is no anticipation of an advance. We quote: Best iron rivets, section, carriage and wagon box, black rivets tinned do., copper rivets and tin swede rivets, 60, 10 and 10 per cent.; swede iron burrs are quoted at 60 and 10 and 10 per cent. off new lists; copper rivets with the usual proportion of burrs, 45 per cent. off; and coppered iron rivets and burrs in 5 lb. carton boxes at 60 and 10 and 10 per cent.; copper burrs alone, 30 and 10 per cent., subject to usual charge for half-pound boxes.

Screws—Screws still continue to be in good demand. The manufacturers are sending in some good orders for certain sizes, and owing to this condition it is somewhat difficult for other purchasers to obtain these sizes. Prices continue unchanged. We quote: Round head, bright, 82 1-2 per cent.; flat head, bright, 87 1-2 per cent.; brass, round head, 75 per cent.; brass, flat head, 80 per cent.

Bolts and Nuts—There still continues to be an excellent demand for bolts and nuts. Orders are being shipped forward freely, and taking everything into consideration trade has a very bright aspect. The increased demand has caused prices to become firm, but no change is expected.

Wire Nails—Wire nails still continue to have a good demand, and it is reported that there is some delay on the part of the manufacturers in shipping orders. Prices continue unchanged. Our quotations are as follows: $2.25 a keg f.o.b. Montreal.

Cut Nails—Conditions on this market continue unchanged. Trade still continues only to be fair. We quote the following: $2.20 a keg f.o.b. Montreal.

Horseshoes — The demand has weakened during the week, which is probably due to the fact that dealers have concluded purchasing for the ensuing year. Prices, although firm, continue unchanged. Our quotations are as follows: P.B. New Pattern, base price, $3.50 per 100 lbs.; M.R.M. Company latest improved pattern iron shoes, light and medium pattern, No. 2 and larger $3.65, No. 1 and smaller $3.90, snow pattern, No. 2 and larger $3.90, No. 1 and smaller $4.15. Light steel shoes, No. 2 and larger, $3.90, No. 1 and smaller $4.15; featherweight, all sizes 0 to 4, $5.50; toe weight, all sizes 1 to 4, $6.75. Packing—Up to three sizes in a keg ten cents per hundred pounds. More than three sizes twenty-five cents.

Horse Nails—Trade in respect to horse nails has also a tendency to be quiet. This change is doubtless caused by a non-appreciative position on the part of the retail dealers.

Sporting Goods—Orders are beginning to arrive more freely, and it is expected that by the time the regular shooting season opens a large number of orders shall have been booked. A number of American manufacturers of single-barrel shot guns have advanced their prices, and this may have a tendency to effect our market in regard to this particular line of goods. As yet no change has occurred. Our quotations are as follows: Canadian-made shells, black, 25 and 5 per cent.; smokeless, 25, 10 and 5 per cent.; American centre-fire cartridges, list net; sporting and military, 10 per cent. advance on list; primers, $2.05 per thousand; American loaded shells, 20 per cent. discount; B. B. caps, $2 per thousand; C. B. caps, $2.60 per thousand; standard shot, $6.50 per hundred lbs.; chilled, $7 per hundred lbs.; buck and steel, $7.50 per hundred lbs.; ball, $8 per hundred lbs. We quote discounts 15 per cent. on shot f.o.b. Montreal, Toronto, Hamilton, London, St. John, and Halifax.

Building Paper—The demand for building paper has increased during the past week. It is expected that a good demand shall be prevalent as long as the building season continues. No change has occurred in the price list, and it is expected that prices shall remain unchanged for the rest of the current year.

Cordage—Some good orders have been received for binder twine. It is yet rather early for this trade, and the bulk of the business is not likely to be transacted until much later on in the season.

Cement and Firebrick—Large quantities of foreign cement and firebrick continue to arrive. Firebrick has a very good demand at present. Cement is also being purchased very freely, and trade is expected to be much better than last year. Prices continue unchanged.

Our quotations are as follows: English cement, $1.80 to $1.90; Belgium, $1.60 to $1.90 per barrel; ex-store, American, $2.00 to $2.10 ex-cars; Canadian Portland, $1.90 to $2.00. Firebrick, English and Scotch $17 to $21, American $30 to $35.

Coil Chain—The increase in the demand which was prevalent last week has subsided. Trade on this market will doubtless remain quiet for some four months, when orders will begin to arrive for a heavy quality of chain for use in the lumber camps. Our quotations are as follows: 5-16 inch, $4.25; 3-8 inch, $3.75; 7-16 inch, $3.55; 1-2 inch, $3.35; 9.16 inch, $3 .30; 5-8 inch, $3.20; 3-4 inch, $3.05; 7-8 inch, $3; 1 inch, $2.95.

Green Wire Cloth—Trade on this market has become quieter. Dealers no doubt have concluded purchasing for the present year. We quote the following: Per 100 square feet, $1.50.

Poultry Netting—As the season has now become well advanced the sale of poultry netting has weakened, and trade will remain quiet until the opening of next Spring. Discounts for two inch nineteen gauge standard, and sixteen gauge extras, at 60 per cent.; finer meshes, 55 per cent.

Spring Hinges—The time when hinges are more frequently used has also passed, and trade, although quieter, is expected to remain steady until this time next year. We quote: No. 5, $7.25 per gross; No. 19 $18 per gross; No. 20, $18.80 per gross; No. 120, $20 per gross; No. 51, $9.25; No. 50, $27.50.

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Ontario Hardware Markets

Office of HARDWARE AND METAL,
10 Front street east,
Toronto, May 19, 1905.

A TEMPORARY relaxation is noted in the hardware markets, the rush preceding and following the opening of navigation being over, and the lack of good growing weather holding the farmers from buying in large quantities has left the local merchants with full shelves. The condition is not a permanent one, however, and it is expected that business will pick up during the coming fortnight and re-orders will come in more plentifully.

In all garden tools, as well as in harvest utensils, a large trade is being done, and retailers report a tremendous movement of lawn mowers, while lawn hose, sprinklers, seats, etc., are also moving. Building materials and tools are also moving actively, while Summer goods such as refrigerators, screens, etc., are being sold in fair quantities.

Lawn Mowers—General activity is reported in this line, grass growing rapidly on the lawns at present.

Sporting Goods—Fishing tackle, baseball and outdoor athletic goods are in strong demand.

Washing Machines—The demand continues active, and prices are very firm.

Chain—Call for chain, particularly for the small sizes, continues strong. We quote: 1-4 inch, $6.50; 5-16 inch, $4.45; ⅜ inch, $3.85, 7-16 inch, $3.70; ½ inch, $3.55; 9-16 inch, $3.45; ⅝ inch, $3.35; ¾ inch, $3.25.

Step Ladders—The movement of goods this season has been greater than last year. We quote at 10c. per foot for 3 to 6 feet, and 11c. per foot for 7 to 10 feet ladders.

Extension Ladders—Sales are reported to be fairly large. Waggoner, 40 per cent. off list.

Galvanized Wire—Much trade is reported doing. We still quote: $2.37 1-2 f.o.b. Cleveland.

Coiled Spring Wire—Farmers are using a large quantity for fencing, and the trade done this Spring has been a large one. The same quotations continue.

Barb Wire—The volume of business being done is very large, trade continuing to be very active and prices steady.

Wire Nails—The nail trade continues very good, prices being unchanged. Nominal quotations are $2.25 f.o.b. Toronto.

Cut Nails—The call for cut nails continues steady. Prices remain firm. Quotations are $2.40 per keg f.o.b. Toronto.

Horseshoes—A good trade is being done. We quote: "P. B." base, $3.65; "M.R.M. Co., latest improved pattern" are: Iron shoes, light and medium pattern, No. 2 and larger, $3.80; No. 1 and smaller, $4.05; snow No. 2 and larger, $4.05; No. 1 and smaller, $4.30; light steel shoes, No. 2 and larger, $3.95; No. 1 and smaller, $4.20; featherweight, all sizes, 0 to 4, $5.50; toe weight, all sizes, 1 to 4, $6.75. If shipped from factory 15c less.

Horsenails — There is a very good demand, and prices remain unaltered.

Screws—Business continues good, with the mills very busy. Prices are unchanged.

Rivets and Burrs—There has been no decrease in the demand. Prices are unchanged.

Bolts and Nuts — Trade continues active. Quotations remain as before.

Woodenware—All lines are moving actively, the season being favorable.

Cordage—Orders have been well placed for the year, about 70 per cent. being secured by the Americans, who quoted rock bottom prices to secure the trade. Sales have been larger than last year, and crop prospects are good. Our quotations are as follows: Red Cap, 11½c; Tiger, 10½c; and Standard, 9½c; manila, 14½c; British manila, 11c; sisal, 10½c; double lathyarn, 10½c; single lathyarn, 10c; sashcord, "Hercules," 30 to 32c; "Star," 36 to 38c; cotton twine, 3-ply, 24c; 4-ply, 29c; calking cotton, 16½ to 17c; cotton waste, colored, 6½c; white, 11 to 13c.

Cement — American manufacturers have not sent much of their goods into Canada this season. Trade has been active, as the building boom has created a strong demand. Prices are very strong. We quote as follows: For carload orders f.o.b. Toronto. Canadian Portland, $1.70 to $1.80; American Portland, $1.70 to $1.80. For small orders, ex warehouse: Canadian Portland, $2; American Portland, $2.

Firebrick — Trade is active, and stocks are being replenished. Quotations continue at: English and Scotch firebrick, 30 to 35c; American, low-grade, 25 to 30c; high-grade, 32 1-2 to 40c.

Building Paper—Demand is very brisk, new buildings in course of erection being well advanced.

Hides, Tallow, Skins and Wool.

Conditions on this market remain practically unaltered from last week, with the exception of an advance of ½c. in prices for country flat hides. The Chicago market continues high, although further advances are not expected. The local market is practically cleaned up on hides, which goes to show that the tanners have been getting busy. Receipts of unwashed wool show a considerable increase for the week. We quote the following prices:

Hides, No. 1 green steers, per lb		0 09
" 2 " " "		0 08
" No. 1 green, per lb		0 08½
" 2 " " "		0 07½
Country hides, flats, per lb	0 07½	0 07½
Calf skins, No. 1, selected		0 11
" " No. 2		0 09
Deacons (dairies), each		0 80
Sheep skins		1 25½
Rendered tallow, per lb	0 04	0 04
Unwashed wool, new clip, per lb	0 13	0 14
Pulled wools, super, per lb	0 21	0 23
" " extra "	0 22	0 24

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Canadian Metal Markets

WITH the arrival of each steamship come fresh supplies of steel and pig iron, although it has been estimated that the amount of import iron arriving this Spring is not as large as that of last Spring. The best reason obtainable for this slight change is that Canadian utilizers are depending more on the home product. Tin plates and Canada plates have each a good demand, but owing to the high freight rates the sale of tin plates in Ontario and the Western Provinces is limited. Manufacturers of tin and graniteware are booking large orders with local wholesale dealers, which gives the trade a very bright aspect. Prices are steadier and orders are beginning to come forward more freely.

No importations have reached Toronto as yet and stocks are very bare. The lateness of the boats in unloading their cargoes caused a congestion and incoming goods were sidetracked to allow of exportations being made on the boats' schedule time. Stocks will be increased considerably, however, during the coming fortnight. Trade is reported to be active in most lines and orders are being booked for large quantities for delivery later on to large consumers of raw materials in metals.

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QUEBEC.

Office of HARDWARE AND METAL,
232 McGill Street.
Montreal, May 19, 1905.

Pig Iron—No further decline has occurred on this market. Large amounts are arriving from the English markets. Sales have greatly increased during the week, and the prospects are for a good

trade this year. Our quotations are as follows:

"Disc," No. 1	$16.50	delivered	Montreal.
"Dom.," No. 1	17.50	"	"
Usual difference in price for lower grades.			
Ferrona No. 1	$18 00	delivered	Montreal.
" No. 2	17.50	"	"
" No. 3	16 50	"	"
" No. 4	16.00	"	"
Londonderry	$18.50 to $19.00	"	"
Glengarnock	18.25	"	"
Gartsherrie	19.25	"	"
Carnbroe	18.50	"	"
Carron No. 1	19.00	"	"
" (special)	18.00	"	"
Ayresome No. 1	18.25	"	"
" No. 3	17.50	"	"
Summerlee	18.50 to 19.00	"	"
Clarence No. 1	17.50	"	"
" No. 3	17.00	"	"
No. Cleveland	17.50	"	"

Bar Iron—Sales continue to be numerous, and latest reports state that they are in advance of last year. Prices are firm, but no advance has occurred. Our quotations are: Merchant bar, $1.80; horse-shoe iron, $2.02½; forged iron, $2.05; best refined iron, $2.20 net cash thirty days.

Tool Steel—Orders are being shipped forward freely, a large majority of which are forwarded by water to the Lower Provinces. Orders from the Western Provinces are also coming forward more freely. We quote: Colonial and Black Diamond, 8c to 9c; Sanderson's, 8c to 45c, according to grade; Jessop's, 13c; Jonas & Clover's, 10c to 20c; "Air Hardening," 65c per lb.; Conqueror, 7½c; Conqueror High Speed steel, 60c.

Merchant Steel—Conditions of this market continue unchanged. Orders possibly are not arriving as frequently as heretofore, which is probably due to the fact that merchants have concluded purchasing for the current year. Prices are firm, but no change has occurred during the past week. We quote: Sleigh shoes, $1.97 1-2: tire, $2.07 1-2; spring, $2.75; toecalk, $2.65; machinery iron finish, $2.10; reeled machinery steel, $2.75; mild, $2 and upwards; rivet, $2.00 and upwards. Net cash thirty days.

Cold Rolled Shafting—Trade on this market continues to be steady. Prices remain the same. Our quotations are: Cold-rolled shafting, 3-4 inch to 17-16, $3.85 per 100 lbs.; inch and a half to 3 inch, $3.50 per 100 lbs.

Canada Plates—Some orders of an appreciative character have been booked during the past few days. These orders have been received from manufacturers of tin and granite ware. Prospects on this market are very bright. We quote: 52's, $2.35; 60's, $2.40; 75's, $2.45; full polished, $3.60; galvanized, 52's, $3.90 to $4.00; 60's, $4.15 to $4.25.

Galvanized Iron—The demand on this market has become steadier. Prices remain firm, but no advance has occurred. Prices are expected to continue steady during the season. We quote: Queen's Head, 28 gauge, $4.15; 26 gauge, $3.90; 22 to 24 gauge, $3.65; 16 to 20 gauge, $3.55; Apollo, 28 gauge, $4; 26 gauge, $3.75; 22 to 24 gauge, $3.75; 16 to 20 gauge, $3.40; Fleur-de-Lis, 28 gauge, $4; 26 gauge, $3.75; 22 to 24 gauge, $3.50; 16 to 20 gauge, $3.40; Comet, 28 gauge, $3.95; 26 gauge, $3.70; 22 to 24 gauge, $3.45; 16 to 20 gauge, $3.40; Bell brand, 28 gauge, $4; Gorbal's "Best Best," 28 gauge, $4.15; "Windmill Best," 28 gauge, $3.95; Sword and Torch, 28 gauge, $4.05, in less than case lots, 25c extra.

Black Sheets—No noteworthy feature has occurred in reference to this market during the past week. Trade is better, some large orders having been booked within the past few days. Prices remain the same. Our quotations are: 28 gauge, $2.15; 26 gauge, $2.10; 22-24 gauge, $2.05; 19-20 gauge, $2.20; 8-10 gauge, $2.30.

Antimony—This market still continues featureless. We quote from 9 to 9 1-2c.

Sheet Zinc—A good demand is prevalent on this market. Prices, although firm, are expected to become easier on account of the continued declined on the ingot zinc market. The present outlook in regard to the demand is very bright. Our quotations are: Cask lots, $7; small lots, $7.25.

Tin Plates—Large orders have been received by the local wholesale dealers during the past week from manufacturers of cans, pails, etc. The market, which has been firm, is expected to become easier in sympathy with the weakening on the tin market. We quote the following: Cokes $3.55, charcoal $4.00.

Ingot Tin—For the past few weeks this market has been steadily becoming weaker until within the past few days a decline of 1-2c. occurred. Orders continue to arrive freely. The market at present is firm at the new prices, but it is anticipated that it will weaken again within a few days. The present price ranges from 32 1-2 to 33c.

Ingot Copper—Latest reports received state that the conditions on this market are becoming easier. No change has as yet occurred on the price list, but it is stated that large amounts can be purchased at a figure slightly easier than that which is quoted below. Our quotations are from 16 to 16 1-4c.

Ingot Zinc — The recent series of fluctuations on this market have resulted in a decline of 1-4c. The market has become firm at this figure, and it is expected to continue steady for some time. Our quotations are as follows: 6 1-4 to 6 1-2c.

Pig Lead—During the week the market has become firmer, and at present the prevailing conditions point to an upward tendency on the part of the prices. We quote the following: From $3.35 to $3.45, no concessions being obtainable.

Boiler Tubes—Conditions of trade on this market have greatly improved. A better demand exists, and some large orders have been booked during the past week. Our quotations are: British and American tube, 1 1-2 inch, 8 1-2c; 2 inch, 8½c; 2½ inch, 10c; 3 inch, 12¼c; 3½ inch, 16c; 4 inch, 20c; 5 inch, 45c. Price per foot net.

Scrap Metal and Old Material — Conditions, generally speaking, continue without much change. Locally speaking, copper and brass have each a good demand. The English and American markets are quiet owing to the fact that they both purchased excessive amounts during the early period of the present war. Prices on the foreign market are expected to remain low until the present stock has been resold. However, Canadian brass foundries are busily engaged at present, and they are expected to utilize a large amount of the scrap material on the Canadian market. The English market for scrap steel and iron still continues to be weak. The American market in these two lines is weakening also, and although the duties between United States and Canada prevent any large sales being booked, still it has an effect on our market, inasmuch as the prevailing conditions on their market correspondingly effect conditions on this market. No changes have occurred in the prices during the past week. We quote the following: Heavy copper and wire, 12 3-4c.; light copper, 11 1-2c; heavy red brass, 10 1-2c.; yellow brass, from 8 3-4c. to 9c.; light brass, 3c.; lead, 2 1-2c.; zinc, 3 3-4c.; machinery cast scrap, $14.00; wrought scrap, $14.00; stove-plate scrap, $11.00; No. 1 country rags, 75c. to 90c. per hundred lbs.; old rubbers, 5c.

ONTARIO.

Office of HARDWARE AND METAL,
10 Front street east.
Toronto, May 19, 1905.

Pig Iron—The mills are booked up with orders, and a steady demand exists. We quote:

Middlesboro, f.o.b., Toronto	$20 00		$20 50
Hamilton, No. 1, at furnace	18 00		18 50
" No. 2, "	17 50		18 00
Midland, No. 1, "	....		18 50
" No. 2, "	....		18 00
Radnor, at furnace	....		30 00
Londonderry, at furnace	16 50	to	17 00

Bar Iron—Trade continues very active with prices firm. Quotations are as follows: $1.85 f.o.b. Toronto, with discount of 2 per cent.; for extras as cut to length, while rolling, 2 feet and over, 10c per 100 lbs.; 1 foot and under 2 feet, 15c; under 1 foot, 20c; over 20 feet, by special agreement according to length and size.

Tin—No change is noted in the condition of the market, it being quite strong with a steady demand. Prices continue unchanged. We quote from 33 to 34c. pre lb.

Galvanized Sheets—The call for goods is heavy and prices the same.

Tin Plates — Demand continues very active and prices firm.

Canada Plates—Much business is being done at the same prices.

Brass—Trade is active and prices firm. Discounts are 10 per cent.

Lead—Conditions continue unchanged, the demand being strong at firm prices. We still quote: Pig lead, $3.80 per 100 lbs.. and bar lead, $4.80 per 100 lbs.

Zinc Spelter—Less business is being done, the former prices being unchanged. We quote: 7c. per lb. for foreign and 5½ to 5¾c per lb. for domestic.

Copper—A stronger demand is manifesting itself, although the market is

PORTLAND CEMENT

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FIRE BRICKS, FIRE CLAY,
BUILDING BRICKS,
FIRE PROOFING
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and BLOCKS.

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Especially adapted for Car Wheels, Malleable Castings, Boiler Tubes, Engine Cylinders, Hydraulic and other Machinery where great strength is required; Strong, High Silicon Iron, for Foundry Purposes.

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THE "VANDA" BRAND

For all purposes requiring the best quality.

It is "deadflat," well galvanized, true to gauge and specially soft for working-up. We guarantee every sheet bearing our brand.

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Wholesale Merchants
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Metals of every description, Wire Rope, Portland Cements, Firebricks, Ore Sacks, Grain Bags, etc, etc.

still weak. Prices remain as follows: Ingot copper, 16 1-4c. per lb., and sheet copper, 21c. per lb.

Antimony—A fair movement is reported, the market being quite active. No changes are noted in quotations.

Old Material—Metals are all fairly active with prices unchanged. We quote: Heavy copper and wire, 12 1-2c per lb.; light copper, 11c. per lb.; heavy red brass, 10½c per lb.; heavy yellow brass, 9c per lb.; light brass, 7c per lb.; tea lead, $2.40 per 100 lbs.; heavy lead, $2.60 per 100 lbs.; scrap zinc, 4c per lb.; iron, No. 1 wrought, $9 to $10, No. 2 wrought, $3 to $5; machinery cast scrap, $14; stove plate, $10; malleable and steel, $5; old rubbers, 5c per lb.; country mixed rags, 65c per 100 lbs.

Coal—Importations are being made in fair quantities, but the small demand for hard coal is causing a shortness in the slack supply. We quote: Anthracite in cars at bridges: Grate, $5.10 per gross ton; egg, stove and nut, $5.35 per gross ton; pea, $3 per gross ton.

Standard Hocking, soft coal, in cars, f.o.b. at mines: Lump, $1.35; ¾ inch, $1.25; run of mine, $1.05; nut, 90c; N. P. and S., 60c., coarse slack, 40c; box cars 10 cents per ton additional.

Youghiogheny soft coal in cars, bonded, at the bridges: 1¼ inch, $2.45; ¾ inch, $2.35; mine run, $2.25; slack, $1.90.

For Manitoba Metal Markets see page 38.

UNITED STATES METAL MARKET.

Advance proofs furnished HARDWARE AND METAL by The Iron Age, May 18 1905.

FROM all the principal distributing markets come the reports that in the raw material, pig iron, the buying movement is almost arrested. Many producing interests take the ground that a time like this is not one to force sales and are withholding. On the other hand, buyers are not being tempted by such concessions as are being made, like, for instance, the recent lowering of southern iron to the $13 basis. While many consumers are well covered, in some instances into the fourth quarter, others have all along fought the advances made and are still purchasing in small parcels for very prompt delivery.

Thus far, on the whole, the demand from the general foundry trade has not developed an increase at all in proportion to the swelling of the requirements of the steel trade. This, however, may be explained partly by the fact that the product of many foundries is in highly finished forms, for which the demand follows after industrial expansion has had full headway. We need only instance machinery for the expansion of old plants and the building of new manufacturing works.

The demand for steel billets continues fair and there is still some scarcity. An interesting development is the buying of ingots by two plate mills in central Pennsylvania in the place of slabs.

The volume of business in the heavier lines of finished iron and steel is heavy and the amount of tonnage in sight is large. It is probable that the 21,000 tons of structural material for the Pennsylvania station in this city will go to a central Pennsylvania mill.. The whole undertaking will call for about 50,000 tons. The contract for the 20,000 tons of material for the Philadelphia Rapid

Tinplates

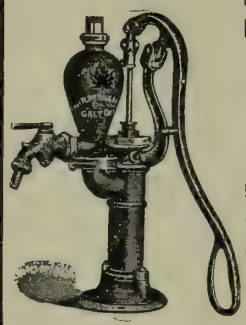
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Manufacturers of

Ferrona Pig Iron

And SIEMENS-MARTIN

OPEN HEARTH STEEL

Transit has not yet been actually signed. The flow of tonnage for new buildings and manufacturing plants is ample and steady.

Among the rail orders lately placed is one lot of 11,000 tons for Cuba.

It is in the lighter lines of finished iron and steel that the situation is less satisfactory. It almost looks as though the jobbing trade had overbought early in the year. It is certain that some of these interests are making efforts to move their goods by offering concessions. Reports are conflicting as to the degree of success which is attending their efforts, and there is some talk of measures on the part of some manufacturers to back them up.

The feeling is abroad that a fresh buying movement cannot be well expected until well into June and that the crop prospects will have a decided influence upon the movement.

Observers here are watching the English warrant market with interest, since it looks as though a corner is developing. The rise in pig iron in the face of steadily increasing stocks in England was attributed to the expectation, which at one time seemed justified, that we would be forced to buy considerable quantities of pig iron abroad. When it became evident that our production was expanding at an unlooked for rate short selling began, and it is these operators who are to be squeezed.

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British Columbia Markets

Vancouver, B.C., May 12, 1905.

MINING matters, in a quiet way, have progressed for several seasons along very satisfactory lines in British Columbia. Perhaps the conservative tendency of mining men in handling the properties which are being developed has been a chief factor in bringing satisfactory results. The fact remains that there is now a healthy activity and consequent business improvement in many districts where mining had lain dormant or been knocked into worse than the proverbial cocked hat by the booming of the disastrous days of excitement not so many years ago.

Not all the enterprise is rewarded with success, but while some discouraging cases have occurred, the whole field is progressing very well indeed. Vigorous management, the building of concentrators to handle low-grade ores economically, and the cheapening of coke for smelting, together with the lead bounty as encouragement for the silver-lead mines, have all had their share in re-creating the mining industry on stable and permanent basis in British Columbia. Last year in the Rossland camp, for instance, the results, while not perfectly successful or desirable in all particulars, were, on the whole, satisfactory, and there was even an increase in the number of shipping mines. This year the camp is to see the building of another concentrator for one of the large mines, it is expected. Last year that for the War Eagle and Centre Star mines was built at Trail. The consolidation of the big mines of the Rossland camp, and the C.P.R. smelter at Trail under one management is expected to be accomplished.

In the Slocan there can hardly be said to have been a revival, for there is room for a great deal of improvement yet. However, the silver-lead mines have been encouraged by the lead bounty, and the development of a zinc-refining industry is an additional means of securing all there is in the values raised from these highly-mineralized properties.

The boundary district, long demonstrated as a good, if small, section of mining country, and well supplied with smelters for handling ore, goes along with the steady regularity of an old farming district. The returns are just as sure as the crops. The smelters are kept going and the mines send the number of tons of ore necessary to keep them going, and that is all there is to it. The boundary district is solidly prosperous.

Around Nelson and in East Kootenay there is considerable activity, too, and some building of concentrators not only occurred last year, but there are to be more this year. The Molly Gibson mine is to have a $35,000 concentrator capable of handling 75 tons per day, and the reduction process will put six tons into one, roughly speaking, so that transportation to the lake for shipment to the smelter will be greatly reduced in cost. The mine has been developed very considerably and there is a good season in sight for it.

* * *

At Fernie, the working of the Crow's Nest Pass Coal Co.'s mines, now under the general management of Mr. G. G. S. Lindsay, has been greatly facilitated by the erection of a steel tipple which is much larger and more completely equipped than the wooden one destroyed by fire some time ago. The economy effected in handling coal by the new tipple is indicated by the statement of Mr. Lindsay that four men and two boys can load and ship 4,000 tons of coal per day. Though inconvenienced by the destruction of the wooden structure, the company managed to keep all contracts for supply of coal fulfilled. Labor matters have dropped to a quiet position, a two-year contract between the men and management having recently been signed up.

* * *

Railway matters in British Columbia have simmered down to a quiet state for some weeks. The probabilities are no longer discussed. The activity of the Great Northern in continuing their extension from Midway north and west into the Similkameen is said to have caused the C.P.R. to come to the decision to take active and immediate steps to reach the same district this year, and well-founded statements, though not officially made as yet, indicate that the C.P.R. will begin actual work on their long-projected short line from Spence's Bridge, via Nicola Valley, through the Similkameen to the boundary, this season. Engineers are said to be in the field now.

* * *

On Vancouver Island, the E. & N. Railway are building a branch line from the Extension coal mine to Ladysmith, the shipping port. A steel bridge across Nanaimo River is being built on the new branch.

* * *

The Geo Hunter Hardware Co., Limited, succeed to the business of Messrs. Fife & Hunter, a change having been necessary as a result of the regrettable death of Mr. Fife some months ago. Mr. Hunter will continue as managing-director of the new company which is capitalized at $50,000.

* * *

Among other new corporations recently gazetted are the B. C. Tie & Lumber Co., Limited, capitalized at $250,000; the McLean Feed Water Heater Co., Limited, capital $35,000.

* * *

A cargo of rails for the Klondike Mines Railway at Dawson, went north by the steamer Amur last Saturday. The Amur loaded the rails at New Westminster, where they were transhipped from Great Northern cars.

* * *

The heavy shipments to northern British Columbia ports of tinplate for canneries, together with other supplies, continue, though the bulk has now gone forward. Part of the 40 cars of U. S. tinplate arriving over the Great Northern at New Westminster for cannery concerns, was forwarded north, where the same concerns own canneries.

* * *

Thirty years ago on May 5, the work of laying the first cast iron main in Victoria for the then new waterworks was begun. It is still in use and apparently in good condition. Four years ago there were dug up on Government street in Victoria, the wooden pipes which formed the first water service in that city. They were laid over 40 years ago, and, though they had been disused and empty for twelve or fifteen years, when dug up were practically as sound as ever. Portions are preserved in the provincial museum at the Government Buildings. They were of bored fir logs, and even the bark and sap wood were left on the outside.

* * *

The latest city in British Columbia is Kelowna, on Okanagan Lake, the second community in that district to seek incorporation this year. Enderby, on the branch railway leading from the C.P.R. main line to Okanagan Lake was recently incorporated and elected its first mayor and council.

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Nova Scotia Markets

Halifax, N.S., May 16, 1905.

WHOLESALE hardware dealers report trade fully up to the average for this season of the year. Large sales of sheet tin and supplies for the lobster canneries along the coast are being made. More factories are in operation this year than heretofore, and in consequence the demand is brisker. The Danish steamer Norden, which arrived here last week from Antwerp, landed over one thousand tons of cargo, principally glass and cement. Prices in all lines show very little change. Collections are reported to be fairly good.

The Pictou smelter, which has been idle for several years, has been purchased by American capitalists. A company has been organized to be known as the Pictou Smelting Co., and the plant is being made ready for active work.

Iron Ore Output.—The output of the Dominion Iron and Steel Co.'s iron ore quarries at Belle Island, Nfld., is expected to reach 500,000 tons this year, which is 150,000 tons larger than any previous year since they were opened.

Almost the entire output will be brought to the works at Sydney.

The Nova Scotia Steel and Coal Co. are also extensively developing their mines at Wabana, Nfld. Upwards of 1,000 men are now employed on the Island. The company a few days ago shipped from Sydney a cargo of pig iron to Philadelphia. This was the first cargo by the company to the United States, and the first from Canada to Philadelphia.

The steamer Simara, from Malaga, Spain, with a cargo of iron ore for the Nova Scotia Steel and Coal Co., arrived at North Sydney last week. This is the first shipment of ore to arrive at that port since the closing of navigation last Winter. The company had 150,000 tons stored at their piers which proved sufficient for their needs during the time of isolation.

The Londonderry Iron Co. have bought a valuable property at Torbrook, Annapolis County, from the Torbrook Iron Co., for which they paid $15,000.

Charles G. Johnstone, for many years with the wholesale hardware house of Black Bros. & Co., left on Saturday for Vancouver, B.C., where he will take a position with a hardware firm.

Good progress is being made in the construction of the cement company's plant at Sydney. While no date has been set for the completion of the plant, the directors expect to see it in operation by July 1.

A survey for a double track between Moncton, N.B., and Painsec Junction was started last week. The traffic between these points is very heavy at all seasons of the year. Although there are long sidings at Humphrey's Mills, a double track is required and probably will be constructed by the I.C.R.

Glace Bay capitalists who are interested in the Seal Harbor gold belt at Goldboro, Guysboro Co., are reported to have struck it rich there. On the Donkin lead, which is about 27, there are now 3,500 tons of quartz exposed, and it is estimated that it will yield a profit of $10 per ton. President Hayward of the Nova Scotia Mining Society has expressed the opinion that from the present outlook the property will prove to be one of the richest in the province.

The blowing out of the cylinder head of the engine in the blooming mills of the Steel Co. at Sydney last week caused a temporary suspension of business.

The machinery for the new method of preserving bait at North Sydney, is now being placed in position there. It is expected that the factory will be in operation in about two weeks' time.

The new steel railway bridge for Vernon River, P.E.I., will be placed in position about the 25th of this month.

LONDON METAL MARKETS.

From Metal Market Report, May 17, 1905.

Pig Iron—Middlesboro No. 3 foundry is quoted at 55s., and Scotch warrants at 52s., making prices as compared with last week 6d higher for Middlesboro and 3d lower for Scotch warrants.

Tin—Spot tin opened steady at £135 5s, futures at £134 5s., and after sales of 240 tons of spot and 220 tons of futures closed firm at £135 10s. for spot and £134 10s. for futures, making price as compared with last week £1 12s. 6d lower on spot and unchanged on futures.

Copper—Spot copper opened steady at £64 10s., futures £64 10s., and after sales of 400 tons of spot and 800 tons of futures closed easy at £64 7s. 6d for spot and £64 7s. 6d. for futures, making price as compared with last week £1 7s. 6d lower on spot and £1 11s. 3d lower on futures.

Lead—The market closed at £12 8s. 9d, making price as compared with last week 2s. 6d higher.

Spelter—The market closed at £23 12s. 6d, making price as compared with last week 1s. 6d higher.

METAL AND MINING NOTES.

Steel cars will soon be running on some of the surface lines in New York. The first lot of a large number ordered has been received and will be put into service at once. Wood is used only for inside trimmings and even this is supposed to be fireproof.

* * *

A new system of steel tie construction is being exploited in Pittsburg and negotiations are pending for the adoption of the new ties by two railroads entering this city. The new design is made on the principle of a continuous truss for all portions of the roadbed. The ties are arranged in triangular order, each firmly clamped to the rails, which are connected in pairs by means of bolts. A perfect truss thus is formed. The wide spaces between the extended parts of each triangle are occupied by short ties, and the entire structure is so put together that regular distances between the centres of the ties under the rails are maintained.

* * *

A number of hematite iron claims in the vicinity of Quatsino Sound, Vancouver Island, have been, or are about to be, disposed of to American capitalists, and there are prospects of blast furnaces being established somewhere on the Island.

FINE PREMISES.

A large number of persons accepted Messrs. Emerson & Fisher's invitation to inspect their new premises at St. John, N.B., last week. Business was suspended, and proprietors and clerks devoted all their time to showing their visitors over the spacious new building. All were delighted with the fine premises and with the splendid arrangements for the comfort and convenience of those who work in the building as well as with the many facilities provided for quickly handling the growing business of the firm. Every visitor was presented with a pretty souvenir in the shape of a match box of aluminum with a picture of the new building on it.

FLAGS AND BUNTING.

The approach of Empire and Victoria Days draws attention to one section of trade to which the hardwareman should give considerable attention—that of flags and bunting to develop enthusiasm and patriotism amongst the people. A good display of flags in the hardware store should bring a good trade and also aid in selling hammocks and other lawn and Summer goods.

Rice Lewis & Son, who are large dealers in this class of goods, report a large sale, indicating that there is a return of enthusiasm which developed as a result of the South African war. Now is the time to push these goods if a good profit is desired.

You will never get interest on past due accounts unless you ask for it. Some merchants can ask for it, collect it, and still hold the customers. Others cannot. To what class do you belong?

"METALLIC" Embossed Ceilings are remarkable for their high art quality, light weight and rigidity. Being cold pressed from high grade steel, they are much firmer than other kinds.

No metal ceilings made are applied so easily over old plaster as ours. They never sag, warp or buckle, and their accuracy is such that the joints and edges are practically invisible. Used in connection with our Wall Plates they fireproof any room absolutely and add an elegance to the plainest interiors.

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"Empire" Steel Shingles
"Metallic" Steel Siding
"Metallic" Galvanized Cornices
"Metallic" Galvanized Crestings
"Metallic" Galvanized Finials
"Metallic" Galvanized Eavetroughs
"Metallic" Galvanized Conductors
"Hayes" Steel Lathing
"Metallic" Pressed Zinc Ornaments
"Halitus" Ventilators
"Metallic" Skylights
and sheet metal goods of all kinds.

Stephens'
TRANSPARENT LIQUID WOOD FILLER

A perfect substitute for Shellac, as it not only fills the pores of the wood, but makes a surface equal to one coat of Hard Oil Finish. It is intended for Maple, Sycamore, B.C. Fir, Pine, Poplar, Whitewood, and other close-grained woods. This Filler is Transparent, it will not crack nor peel off, and does not require sandpapering. One coat of Filler and one coat of Extra Light Hard Oil are equal to ordinary three-coat work.

Put up in Gallon, Half-Gallon and Quart Cans only.

MANUFACTURED BY
G. F. STEPHENS & CO., Limited
PAINT AND COLOR MAKERS
WINNIPEG, - CANADA

Hardware and Metal Conditions in Manitoba.

(Market quotations corrected by telegraph up till 12 a.m. Friday, May 19, 1905.)

Office of HARDWARE AND METAL
Room 511 Union Bank Building,
Winnipeg, Man.

HEAVY rains and snow during the last two weeks have supplied the much-needed moisture for the crops, and conditions are considered favorable for a bumper harvest in all parts of the west. These favorable conditions have inspired increased confidence on the part of the trade, and more activity is reported in all branches.

* * *

G. E. Griffith & Co. have opened a plumbing and heating supply house at 199 Main street in the premises recently occupied by R. J. Nott, plumber and gas and steam fitter. This firm are representing H. R. Ives & Co., the Canada Radiator Co. and the Amherst Foundry Co. This is a strong line of agencies, and as in addition, they will handle general plumbers' supplies, they should work up a good trade in the west.

* * *

Mr. F. S. Murdoch, a popular traveler, who was connected for a number of years with the James Robertson Co., and later with the Canada Paint Co., will travel for G. E. Griffith & Co. in the west. Mr. Murdoch is a favorite among the Maritime Province trade, and will soon be as well known in the west. Since coming to Winnipeg he has been connected for some time with the J. H. Ashdown Hardware Co.

* * *

The Great West Wire Fence Co. are commencing business in the west and are applying for incorporation. The principal shareholder is Thomas Black, and, associated with him is W. M. Andrews, who will manage the business. This firm are sole owners of the Rankin patent wire lock, and they will manufacture fencing in Winnipeg. They are appointing hardwaremen as agents throughout the west.

* * *

Values are fairly steady throughout. Glass is becoming scarce, and an advance will be noted in our quotations.

* * *

Screen Wire Cloth — Sorting orders are still numerous, and the price is steady at $1.55 per 100 square feet.

Poultry Netting—In brisk demand. For the 2-inch mesh in No. 19 gauge wire, prices are as follows:

24-inch roll, per roll	$1 20
30 " "	1 50
36 " "	1 80
48 " "	2 40
60 " "	3 00
72 " "	3 60

Wire — For all kinds of fencing material there is a brisk demand. Prices continue as follows:

Barbed wire, 100 lb	$2 85
Plain galvanized, 6 to 8	3 39
" 9	2 50 2 90
Plain galvanized, 10	3 50
" 12	3 10
" 13	3 20
" 14	3 90
" 15	4 45
" 16	4 60
Plain twist	3 85
Staples	3 35
Oiled annealed wire, 10	2 96
" 11	3 02
" 12	3 10
" 13	3 20
" 14	3 30
" 15	3 45

Annealed wires (unoiled) 10c. less.

Horseshoes—An advance in steel shoes will be noted. Business is fairly active. We quote:

Horseshoes, iron, No. 0 to No 1	$4 55
No. 2 and larger	4 30
Snow shoes, No. 0 to No. 1	4 80
No. 2 and larger	4 55
Steel, No. 0 to No. 1	4 75
No. 2 and larger	4 50

Horsenails — Discounts continue as follows: " C " brand 40, 10 and 7 1-2 per cent., " M " brand and other brands 55 and 60 per cent. Add 15c. per box.

Wire Nails—There has been no further change since the recent reduction to $2.85 per keg. Owing to the immense amount of building on hand and projected there is a very active demand, and there is considerable competition for large orders.

Cut Nails—There is less activity in cut nails. Base price is still $3.00 per keg.

Screws—There is a very active demand, and some sizes are reported scarce. Discounts continue as follows:

Screws, flat head, iron, bright	85 and 10 p.c.
Round " "	80 p.c.
Flat " brass	75 and 10 p.c.
Round " "	70 and 10 p.c.
Coach	70 p.c.

Nuts and Bolts—An exceedingly active demand is reported by several houses. Discounts continue as follows:

Bolts, carriage, ¾ or smaller	60 and 5 p.c.
" 7-16 and up	55 p.c.
Bolts, machine, ¾ and under	55 and 5 p.c.
" 7-16 and over	55 p.c.
Bolts, tire	65 p.c.
Bolt ends	55 p.c.
Sleigh shoe bolts	65 and 10 p.c.
Machine screws	70 p.c.
Plough bolts	55 p.c.
Square nuts, case lots	3c. discount.
" " small lots	2½c. "
Hex " case lots	3c. "
" " smaller lots	2½c. "

Rivets—Discounts continue as follows:

Rivets, iron	60 and 10 p.c.
Copper, No. 8	29½
" No. 12	33

Coil Chain—We quote as before:

Coil chain, 3-10 inch	9.25
" ¼ inch	7.25
" 5-16 inch	5.20
" ⅜ inch	4.60
" 7-16 inch	4.45
" ½ inch	4.30
" ⅝ inch	4.10
" ¾ inch	4.00

Shovels—Discounts on spades and shovels continue 40 and 5 per cent.

Harvest Tools — Discount 60 per cent.

Axe Handles—Trade continues quiet. We quote:

Axe handles, turned, s.g.hickory, doz...	$3 15
No. 1	1 90
No. 2	1 60
Octagon extra	2 30
No. 1	1 60

Axes—We quote:

Axes, chopping	$ 6 75 to 12 00
" double bitts	12 00 to 18 00

Files—We again quote as follows:

" Arcade "	70 and 10 p.c.
" Black Diamond "	60 p.c.
" Nicholson's "	62½ p.c.

Building Paper—All grades of building paper continue in very active demand Prices continue as follows:

Anchor, plain	55c
" tarred	70c
Pure fibre, plain	60c.
" " tarred	80c.

Ammunition, Etc.—We again quote:

Ammunition, cartridges, Dominion R.F.	50 and 5 p.c.
Dominion, C.F., pistol	30 p.c.
" military	15 p.c.
Ammunition, cartridges, American R.F.	33⅓ p.c.
C.F. pistol	5 p.c.
C.F. military	10 p.c. advance.
Loaded shells:	
Eley's and Kynoch's soft, 12 gauge black	15 00
chilled, 12 gauge	16 00
soft, 10 gauge	18 00
chilled, 10 gauge	19 00
Shot, Ordinary, per 100 lb	6 25
Chilled	6 75
Powder, F.F., keg, Hamilton	4 75
F.F.G., Dupont's	5 00

Tinware, Etc.—We quote again as follows:

Tinware, pressed, retinned	70 and 10 p.c.
" " plain	75 and 2½ p.c.
" pieced	30 p.c.
Japanned ware	37½ p.c.
Enamelled ware, white	45 p.c.
" Famous	50 p.c.
" Imperial	50 and 10 p.c.

Cordage—Rope is steady. We quote:

Rope, sisal, 7-16 and larger, basis	11 25
Manila, 7-16 and larger, basis	15 25
Lathyarn	11 25

Solder—Quoted at 21c.

Bluestone—In fairly active demand now at $5.75 per cwt.

Iron and Steel—Market is firm and active. We quote:

Bar iron (basis)	2 50
Swedish iron (basis)	4 75
Sleigh shoe steel	2 65
Spring steel	3 00
Machinery steel	3 50
Tool steel, Black Diamond, 100 lb	9 50
Jessop	13 00

Black Sheets—Demand continues quite active. Prices are:

Black sheets, 10 to 16 gauge, 100 lb	3 50
18 to 22 gauge	3 75
24 gauge	3 90
26 gauge	4 00
28 gauge	4 10

Galvanized Iron—Western demand is very active. Prices continue as follows:

Apollo, 16 gauge	4 00
18 and 20 gauge	4 00
22 and 24 gauge	4 25
26 gauge	4 25
28 gauge	4 50
30 gauge or 10¾ oz	4 75
Queen's Head, 24 gauge	4 25
26 gauge	4 50
28 "	4 75

Tinplates—Prices are:

Tinplate, IC charcoal, 20 x 28, box	9 50
" IX "	11 50
" IXX "	13 50
Canada plate, 18 x 21, 18 x 24	3 25
Canada plate, 20 x 28	3 50
Canada plate, full polished	4 00

Ontario Lantern & Lamp Co., Limited

Lanterns, Lamps, Lamp Burners, Etc.

NICHOLSON FILE CO.

***High Grade Files and Rasps* (WARRANTED)**

Orders solicited from the wholesale trade

WALTER GROSE, MONTREAL, - - Sole Selling Agent

FOR **STORAGE** IN **WINNIPEG**

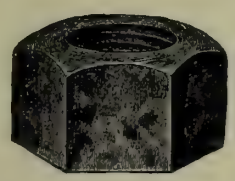
Handling and reshipping of goods. Brick warehouse with track facilities.

MACKENZIE BROS. WRITE 244 PRINCESS ST. OR P.O. BOX 579 **WINNIPEG.**

ORNAMENTAL GLASS

The time is past for the west to send east for anything in the Ornamental Glass Line. We do bevelling, silvering, chipping, sand-cutting, Lead and Copper Work, Memorial Window Work, etc. Workmanship surpassed by none. Staff increased double in past year. Prices right.

THE WINNIPEG PAINT AND GLASS CO., LIMITED
WINNIPEG, CANADA



THE JOHN MORROW MACHINE SCREW COMPANY, Limited

Manufacturers of

Set and Cap Screws, Special Milled Work, Engine Studs, Etc. Cold Punched Nuts of every variety of finish.

INGERSOLL, ONT.



STOVEPIPE

Scheip's Patent

Nested 25 lengths in crate

This is the only perfect working Knock-Down Pipe made. Will not telescope.

Manufactured only by

E. T. WRIGHT & CO., Hamilton, Ont.

IF WE DID NOT KNOW

—THAT OUR—

METALLIC ASH-SIFTER

would outlast any wooden sifter—yes, five times over—we would be wasting time saying that it would. But we can prove it. Are you interested in this Sifter and our *Patent Wire Bale,* to be used with it?

WE WILL SEND PARTICULARS ON REQUEST.

C. M. CUTTS & CO., Sole Makers, **Toronto Junction, Ont.**

CONDENSED OR "WANT" ADVERTISEMENTS.

YEARLY CONTRACT RATES.

100	words	each	insertion, 1 year	$30 00
"	"	"	6 months	17 00
"	"	"	3 months	10 00
50	"	"	1 year	17 00
"	"	"	6 months	10 00
25	"	"	1 year	10 00

SITUATION WANTED.

ADVERTISING man, well up in catalog compiling and business correspondence, open for engagement. Box C 48, HARDWARE AND METAL, Montreal. (22)

TRAVELER WANTED.

WANTED—First-class traveler, with thorough knowledge of paint and glass business, to represent jobbing and manufacturing house in Manitoba and Northwest Territory, headquarters in Winnipeg. Must be of good address and strictly temperate. A good position for a good man; none other need apply. Address Box 242, HARDWARE AND METAL, Toronto. (21)

AGENT OPEN FOR ENGAGEMENT.

A MANUFACTURERS' agent wishes to represent English, American or foreign manufacturers of hardware specialties; references exchanged. Box 250, HARDWARE AND METAL, Toronto. (23)

BUSINESS FOR SALE

HARDWARE store, tinware and furniture business, situated in live town of about 1,000 population in Western Ontario, stock $7,000 to $8,000 or could be reduced, no opposition, excellent farming community surrounding, good opportunity for live man. Box 245, HARDWARE AND METAL, Toronto. (20)

BUSINESS CHANCES.

IF you wish to buy or sell a business anywhere in Western Canada, it will pay you to communicate with us. We have some good legitimate propositions on our list; handle nothing else. Address The Business Brokers, 611 McIntyre Block, Winnipeg, Man. (tf)

GOOD hardware store, plumbing and tinsmithing business for sale in Western Ontario. Apply Lock Box 122, Listowel. (22)

MECHANICS WANTED.

TINSMITHS wanted to work on galvanized cornice work and zinc ornamentation under experienced foreman; must be good mechan cs; none need apply unless they are at liberty to come immediately. Apply Box 1111, Oshawa, Ont. (20)

FOR SALE

1 Pair of Scales (capacity 2,000 lbs.)

Apply Box 238

Hardware and Metal

10 FRONT STREET E., TORONTO.

Sheet Zinc—Cask lots are quoted at $8.25 per 100 lbs, and broken lots at $8.75.

Pig Lead—Quoted at $4.50 per 100 lbs.

Iron Pipe—Quotations are:

Black iron pipe, ⅛ inch			....
"	¼	"	2 45
"	⅜	"	2 65
"	½	"	3 00
"	¾	"	3 80
"	1	"	5 50
"	1¼	"	7 45
"	1½	"	8 95
"	2	"	12 30

Petroleum—Prices are still steady at the figures quoted for some weeks. We quote:

Silver Star, per gal	20½c.
Sunlight "	21½c.
Eocene "	23½c.
Pennoline "	24½c.
Crystal Spray "	23½c.
Silver Light	21½c.

(In barrels f.o.b. Winnipeg.)

Paris Green—In seasonable demand. We quote:

English Paris Green—Petroleum barrels, 14 1-4c.; arsenic kegs, 14 1-2c.; 50 and 100-lb. drums, 15c.; 25-lb. drums, 15 1-2c.; 1-lb tins, 17c.; 1-2-lb. tins, 19c.; 1-lb. cardboard boxes, 16c.; 1-2-lb. ditto, 18c. Terms 2 per cent. off for cash in 30 days: 90 days net.

Canadian Paris Green—50-lb. drums 17c., bulk 18c.; in 1-lb. packages 20 cents.

Paints and Oils—Linseed oil and turpentine are both steady. All lines of mixed paints and general painting supplies are moving readily. We quote:

White lead (pure)	$5 00 to $5 50
Bladder putty, in bbls	0 02½
" " in kegs	0 02¾
Turpentine, pure in barrels	$ 0 84
Less than barrel lots	0 89
Linseed oil, raw	0 60
Boiled	0 63

Window Glass—As predicted in these columns for some time, there has been an advance in window glass. With so much building on hand and contemplated there is a sharp demand for glass, and owing to the unsatisfactory state of the Belgian market it has been very difficult for the jobbing houses to get supplies. Local stocks are running low, and further advances would occasion no great surprise. We quote:

16-oz. O.G., single, in 50-ft. boxes—	
16 to 25 united inches	$2.40
26 to 40 "	2.65
16-oz. O.G., single, in 100-ft. cases—	
16 to 25 united inches	4.25
26 to 40 "	4.50
41 to 50 "	5.00
51 to 60 "	5.50
61 to 70 "	6.00
21-oz. C.S., double, in 100-ft. cases—	
26 to 40 united inches	7.35
41 to 50 "	8.40
51 to 60 "	9.45
61 to 70 "	10.50
71 to 80 "	11.55
81 to 85 "	12.60
86 to 90 "	14.75
91 to 95 "	17.30
6 to 100 "	

The Westmount Town Council has chosen a site for the proposed new lighting plant.

PERSONAL AND TRADE NOTES.

Robert Lynch has opened a hardware store at Vaunder, Man.

Mr. Arch. McFarlane, of A. McFarlane & Co., Montreal, was in Toronto this week.

Mr. Sigmund Samuel, of Samuel, Benjamin & Co., left this week on a three-manths' tour of Europe.

Mr. W. E. Ramsay, the eastern representative of the Pedlar People, of Oshawa, was in Coaticook, P.Q., this week on business.

Mr. W. H. Evans, of the Canada Paint Co., Montreal, was in Toronto this week on business in connection with their branch office in that city.

The P. Carey Co., manufacturers of roofing materials, have removed their Toronto office from 100 Front street east to 112 Bay street (rear).

Mr. Walter Page Baxter, representing the Naturo Co., of Salem, New Jersey, was a welcome visitor at the Montreal office of Hardware and Metal May 13.

Mr. Frank J. Taylor, of the Western Foundry Co., Wingham, was in town on Thursday. Mr. Taylor is taking a holiday trip, not having been in the best of health recently.

The plumbers played their first ball match of the season last Saturday at the Dundas and Bloor street grounds, the team representing north of Gerrard street defeating the Southerners by a large margin.

Mr. William T. Hodge, representing Wm. Souter & Sons, Birmingham, England, visited Toronto last week and showed a fine line of brass goods to the local trade. His firm is working up a nice business in Canada.

Mr. R. G. How, representing the Wilkinson Sword Co., Limited, of Sheffield, England, has left Montreal for Ottawa and other Western Canadian cities. Besides a complete sample of razors, Mr. How carries swords, cutlery, and silver and electroplated goods.

Mr. C. C. Ballantyne, manager of the Sherwin-Williams Paint Co., Montreal, visited Toronto this week. Mr. Ballantyne had just returned from New York where he had been to greet Mr. W. H. Cottingham, one of the leading officials in his company, on his return from Europe. Mr. Ballantyne also expects to make the British trip shortly.

Mr. James Munro, of the Munro Wire Works, Limited, of Winnipeg, has been notified by the British Patent Office that he has been awarded patents for improved spring bed bottoms and wire fabrics for use in the manufacture thereof. He has also received notification from the United States Patent Office that sixty claims for patents for automatic wire working machinery had been conceded. It is very difficult to obtain patents for automatic machinery and Mr. Munro is consequently proud of the success which has attended his inventions. The original wire working company in the States have adopted Mr. Munro's machines under royalty agreements.

NEW INDUSTRY.

The Builders' Hardware Co., recently organized in Toronto with a number of valuable patents, are dickering with the Brantford authorities regarding the securing of a site. Arrangements have been partially made for the purchase of the pottery works and for the investment of considerable capital in the concern by Brantford citizens on condition that the industry be established there.

NOVELTIES FOR THE HARDWAREMEN

Combination Shelf and Towel Rack.

THE A. J. Phillips Co., Fenton, Mich., are introducing to the hardware and house furnishing trade the combination shelf and towel rack, suitable for kitchen, bathroom or laundry, shown in our illustration. It

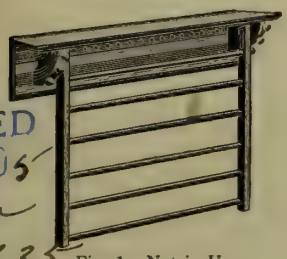


Fig. 1. Not in Use.

is nicely made from beechwood, having small holes every inch in the shelf back for nailing or screwing to the wall. It

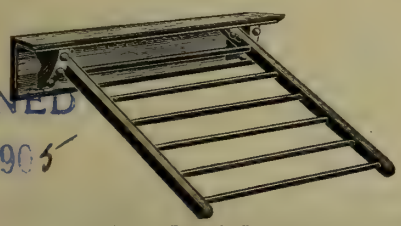


Fig. 2. Rack in Position.

can be set at any angle. Fig. 1 shows the rack hanging under the shelf, out of the way when not in use. Fig. 2 shows the rack in position. The dimensions of shelf are 26 by 4 inches.

A New Carpet Stretcher.

The Diamond carpet stretcher, which is illustrated herewith, is said to be very strong and likewise extremely simple. Very little effort is required to operate it, as the leverage is great. The head moves forward one notch only at each revolution of the crank. By turning the crank the carpet will be stretched to any tension and the stretcher will hold the carpet in such position wherever the crank is stopped, without the

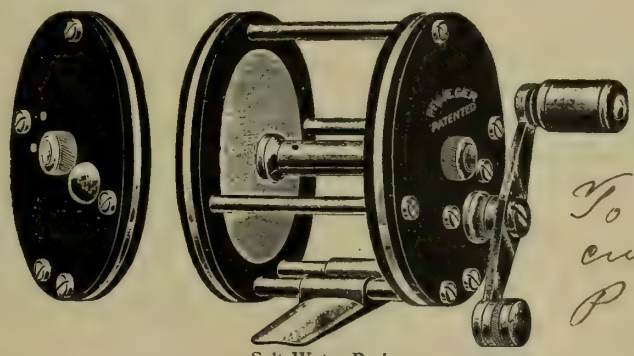


Diamond Carpet Stretcher.

crank being held or fastened. This admits of the free use of both hands by the operator to adjust and tack down the carpet. The stretcher is manufactured by the Holiday Manufacturing and Engineering Co., Chicago, Ill.

Hard Rubber Reel.

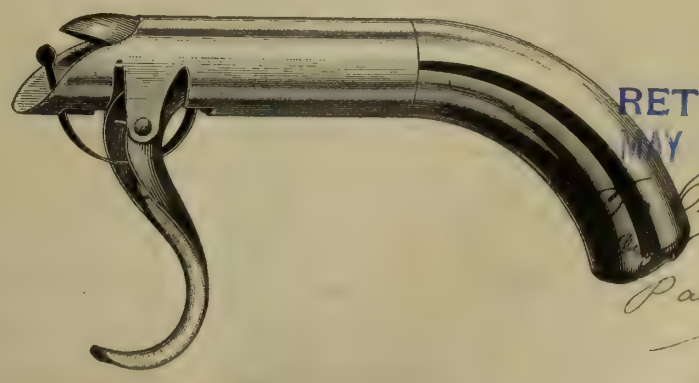
The Enterprise Manufacturing Co., Akron, Ohio, are the manufacturers of Pfleuger's patent, neutralized, hard rubber salt water reel, which marks a radical advance beyond all methods hitherto employed in the construction of large reels. As shown by the cut, thin plates of aluminum are placed between the hard rubber side plates, with the two-fold advantage of a considerable reduction of weight and increase of strength. This structural feature effectually prevents the warping or splitting of the hard rubber discs. Bushings, collars, crossplate, and the various other parts, are fastened directly to the aluminum plate, which removes all possibility of their working loose, or breakage. Bearings are of phosphor-bronze, and the pivots of Stubbs' steel, hardened. Spool, pillars, crossplate and crank of German silver, with handle of hard rubber, and hand finished throughout.



Salt Water Reel.

PINEAPPLE EYE CLIPPERS.

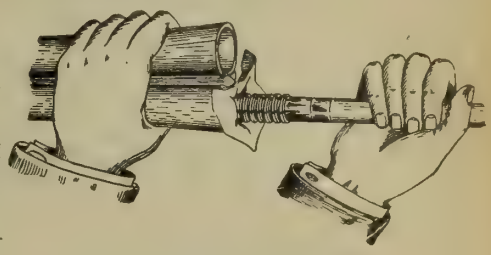
A novelty of considerable value is being placed on the Canadian market at present, it being a hand clipper to extract the eyes from pineapples. In districts where fruit is scarce pineapples are used largely, and these clippers are already having a large sale. H. S. Howland, Sons & Co. are handling the novelty.



Pineapple Eye Clippers.

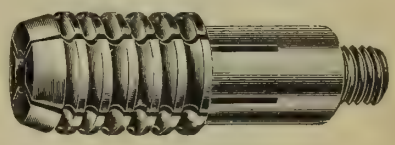
Shot Gun Cleaner.

The accompanying cuts illustrate Stevens gun cleaner, which is manufactured of brass and is practically indestructible, the cloth patch with which it is used protecting it from wear while at the same time it prevents the metal



Stevens Shot Gun Cleaner.

from touching the polished surface of the barrel. The elasticity of the cleaner holds the patches of selected cotton fabric to their work throughout the length of the barrel, leaving no portion of it untouched. This cleaner can be



Stevens Shot Gun Cleaner.

used in 10, 12 and 16-gauge guns, and its good features are recognizable upon the first trial.

Time for the poultry man to be fixing up his yards. There is a good demand for poultry netting from all parts of the Northwest, say the jobbers.

PAINT, OIL AND BRUSH TRADES

A Modern Paint Factory.

A HURRIED trip through the factory of the Imperial Varnish and Color Co., 6 Morse street, Toronto, made a few days ago impressed Hardware and Metal with the excellent arrangements this growing concern has for producing the goods so well known throughout Canada under the various brand names adopted by the company.

It is exceedingly interesting to study the process of how the raw material is received, and after passing through the grinding and drying machines and rooms, is mixed in proper proportions, stirred in large tanks by agitators, and finally passes inspection and is put up in tins of various sizes. The work everywhere seems to be done in the most thorough manner, great care being taken that no part of the product shall go into the stock and shipping rooms unless it is of the highest quality. Varnish, the main product of the company, is given especial attention, the cooking, mixing, filtering and storing being all done carefully in such a way as to maintain the high reputation won by the company in the past. The storage is done in large tanks containing thousands of gallons, the old method of storing in barrels being done away with.

The machinery used is of the most up-to-date pattern, automatic tools operated by compressed air being used to keep the mills clean so that the grinding will be done satisfactorily. After seeing how the automatic mixers and agitators work it is hard to see how anyone can prefer the old wasteful method of mixing paint by hand, so thoroughly is the work done by machinery.

Representatives of the company stated that mixed paints, prepared varnishes and colors were coming into greater favor than ever, the merchant finding it far more satisfactory and profitable to handle the article in cans than in bulk, while the public were better satisfied and far better served than in the old way. Hollywood paste paint had won great favor amongst the painters and was rapidly converting them to the belief that better results could be secured at less cost by using the prepared article in preference to the old hand mixing, the waste of the employe's time as well as the loss in mixing being a great factor in arriving at this decision. So long, however, as mixed paints and pastes of a poor quality were on the market the painter must be expected to oppose the modern method of machine mixing.

Graphite Paint.

The International Acheson Graphite Company, of Niagara Falls, N.Y., announce that they have made arrangements with The Sherwin-Williams Company by which the latter firm becomes the sole manufacturer in the United States and Canada of Acheson Graphite Paint. Acheson Graphite is made by heating antracite coal in an electric furnace at an almost inconceivable temperature, which vaporizes and drives off all impurities, and converts the carbon form of the coal into pure graphite. The process was invented by Mr. Edward G. Acheson, one of Carnegie's "Captains of Industry," and also the inventor of Carborundum. Acheson Graphite is said to possess inherently the requisite characteristic of an ideal pigment for protective paints for metal surfaces.

Weights of Turpentine.

THE peculiar system of weighing turpentine is responsible for some odd examples of frenzied finance at times, resembling in a sense the story of the man who said that when his clock struck two and the hands registered fifteen minutes to eleven he knew it was five minutes to twelve.

The measure used in the United States being known as wine measure, it is claimed that the weight sometimes varies according to the state of the atmosphere, and some claim that 7 lbs. is the correct weight for turpentine, some say 7.20 and some even go as high as 7.40. Imperial measure being 1-5 more than wine measure, the weight of 8.40 per gallon imperial measure has come to be recognized as the average weight of turpentine.

The recent rise in "turp" has provided an opportunity for skillful manipulation of figures to launch a great scheme on buyers by selling on a guarantee that the weight was 8.40 and invoicing in a peculiar form, taking the quantity as gauged in the Southern States, multiplying it by 7.40 and then dividing by 8.40, claiming that this gave the correct weight and measure.

By taking the two tests, one can easily see this is not so. Take a barrel of average size of say 51 wine gallons; take 1-6 from this to bring it to the imperial measure, and it will be found that 51 gallons less 1-6 equals 42½ imperial gallons.

Now, take the plan used; take 51, multiply by 7.40 and divide by 8.40; it will be found to produce 44.90. The seller is enabled to charge nearly 2½ gallons more of imperial measure than the barrel could contain providing it was filled up tight to the bung.

Paint brushes must not be neglected if paints are carried. This is the painting season of the year and it is just as necessary to have a full assortment of the tools as it is to have the paints themselves.







TO THE VARNISH BUYER

the most serious considerations are quality, reliability and uniformity, and these qualifications are of special importance to the dealer who is trying to build up a permanent varnish trade.

Berry Brothers' label or brand may be safely relied upon as ensuring the above conditions.

Our varnishes are the safest goods to handle and the surest and most reliable goods to use.

BERRY BROTHERS, Limited

VARNISH MANUFACTURERS

WALKERVILLE, ONT.

Write for our 100 page illustrated catalogue. Every dealer should have a copy for reference.

McArthur, Corneille & Co.

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Glue and Gelatine

An extensive assortment, to suit all requirements.
WILL BE PLEASED TO SUBMIT SAMPLES AND PRICES

MANUFACTURERS AND IMPORTERS OF . . .

White Lead, Oils and Colors, Prepared Paints, Window Glass, Varnishes, Etc.

SELLING AGENTS IN CANADA

For the GENUINE
Imperial French Green
of JOHN LUCAS & CO., PHILADELPHIA.

And CELEBRATED
English Varnishes
of CHAS. TURNER & SON, LONDON.

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The Skedden Brush Co., Limited, Hamilton

Toronto Office—176 Victoria St. 'Phone Main 3358. O. VICKERY, Agent.

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TRADE MARK

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OLD RELIABLE

"ANCHOR LIQUID HOUSE PAINTS"

They are the outcome of **30 years** manufacturing experience, and also the only **Liquid Paints** made with the **FAMOUS BRANDRAM'S B.B. GENUINE WHITE LEAD**, the **World's Standard** for the last **187 Years.** They have stood the test! A good example of the SURVIVAL OF THE FITTEST!

BRANDRAM BROS & CO
BRANDRAM'S B.B. WHITE LEAD
REGISTERED TRADE MARK
MANUFACTURERS LONDON ENGLAND

Manufactured by

HENDERSON & POTTS, Limited
HALIFAX and ST. JOHN

HENDERSON & POTTS CO., LIMITED
MONTREAL and WINNIPEG

Paint and Oil Markets

Quebec.

Office of HARDWARE AND METAL,
232 McGill street,
Montreal, May 19, 1905.

A HEAVY and persistent demand for white lead is the most noteworthy feature on the market. The increase in the demand has been so great that comment has been forthcoming from the wholesale houses on every hand. Some dealers claim that the retail merchants are buying in the anticipation of an advance in the price through the change in the tariff, and are thereby taking advantage of the situation, while others claim that the merchants are only buying as the consumers demand it, and base their theory upon the fact that only a small amount of work was accomplished during the last Spring. The latest reports received from the English market state that linseed oil on that market is inclined to be easier. No change is expected to take place, however, and conditions are expected to become firmer. During the last week turpentine has advanced 3c. per gallon. A few of the local wholesale houses have made an advance of 5c. per gallon, but the majority are content, at least at present, with an advance of 3c. All reports received state that the crop is as large as in former years, but up to date the receipts have been small and the heavy increase has caused the above results. Ready-mixed paints have a very good demand, well-assorted orders arriving from all parts of the Dominion. With the exception of turpentine the market is steady.

Canadian Paris Green—No change has occurred on the price list. We quote as follows: Barrels, 15 1-4c.; arsenic kegs, 15c.; 50 and 100 lb. drums, 16c.; 25 lb. drums, 16 1-2c.; one pound packages, 17c.; half-pound packages, 19c.; one pound tins, 18c. Terms 2 per cent. discount for cash in 30 days or 90 days net.

English Paris Green—Pure English Paris green, petroleum barrels, 15 1-4c.; arsenic kegs, 15 1-2c.; 50 and 100 lb. drums, 16c.; 25 lb. drums, 16 1-2c.; one pound paper boxes, 17c.; one pound tins, 18c.; one-half pound paper boxes, 19c.; one-half pound tins, 20c. Terms, 2 per cent. off thirty days, or ninety days net from date of shipment.

Turpentine—Single barrels. 85c. per gallon; two to four barrels, 84c. per gallon; for smaller quantities than barrels, 5c. extra per barrel is charged. Standard gallon is 8.40 lbs. f.o.b. point of shipment, net 30 days.

Linseed Oil—Raw, one to four barrels, 50c.; five to nine barrels, 49c.; boiled, one to four barrels, 53c.; five to nine barrels, 52c. f.o.b. Montreal. Net 30 days.

Ground White Lead — Best brands Government standards, $4.70 to $4.85; No. 1, $4.45 to $4.60; No. 2, $4.20 to $4.35; No. 3, $3.87 1-2 to $3.97 1-2; No. 4, $3.50 to $3.60, all f.o.b. Montreal.

Dry White Zinc—Pure dry in casks, 7c.; in 100 lb. kegs, 7 1-2c.; No. 1 zinc, in casks, 6c.; in 100 lb kegs, 6 1-2c.

White Zinc (ground in oil)—Pure, 25 lb. iron, 7 1-2 to 10c.; No. 1, 6 1-4c.; No. 2, 5 1-4c.

Putty—Pure linseed oil 175 to 185. Bulk in barrels, $1.50; in 25 lb. irons, $1.80; in tins, $1.90; bladdered putty in barrels, $1.75.

Orange Mineral—Casks, 7 1-4c.; 100 lb. kegs, 7 1-2c.; smaller quantities, 8 1-2c.

Red Lead—Genuine red lead in casks, $4.50 in 100 lb. kegs, $4.75; in less quantities at the rate of $5.75 per 100 lbs.; No. 1 red lead, casks, $4.25; kegs, $4.75, and smaller quantities, $5.50.

Shellac Varnish—Pure white, $2.60 to $2.80; pure orange, $2.55 to $2.65; No. 1 orange, $2.30 to $2.45.

Mixed Paints—$1.20 to $1.40 per gallon.

Castor Oil—8 3-4c. to 9 1-4c. in wholesale lots, and 1-2c. additional for small lots.

Litharge—Ground, in casks, 5c.; in less quantities, 5 3-4c.; flake litharge, casks, $5.50; smaller quantities, $6 per 100 lbs.

Refined Petroleum—The market continues to be steady. Prices continue unchanged. We quote as follows: American prime white 14 1-2c., American water white 16c.

Ontario.

Office of HARDWARE AND METAL,
10 Front Street East.
Toronto, May 19, 1905.

ONE feature of the week has been the tremendous jump in turpentine, which is now quoted at its highest point this season. A ring has undoubtedly secured control of the base of supplies, and is working the game for a good profit. There is no supply on the local market, and jobbers are advising their customers to buy in small quantities. In Savannah the receipts are sold, and the market is bare of turpentine for sale. The week's jump has been from 85c. and 87c. to 94c. and 95c.

Linseed has also gone skyward, and is now quoted at 55c. and 58c. by most dealers, the rise in England and in Calcutta seed being given as the reason for the jump.

Retailers' stocks of paints are running low on account of the good painting weather, and the number of refilling orders is increasing. In addition to the large number of new buildings going up many old buildings are being repainted.

Glass continues firm, little being received from Europe, and there being absolutely no American goods on the local market.

White Lead—Ex-Toronto, pure white lead, $4.75; No. 1, $4.37 1-2; No. 2 $4;

ARE YOU ACQUAINTED WITH IT?

You ought to be acquainted with

Elastiline Rubber Paint

We can especially recommend it for Roofs, Bridges, Elevators, and all Metal surfaces. It is Fire Proof and Water Proof. It will not crack, run, blister or scale. Quantities and prices on application. Open up correspondence.

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RAILWAY, CARRIAGE AND BOAT **VARNISHES.**
HIGH-GRADE FURNITURE and HOUSE VARNISHES

MONTREAL.

GLUES AGAIN Our IMITATION FRENCH MEDAL GLUES are of such high class and are so suitable for Export that we would like to quote you. Export trade in this line is growing rapidly, and we pack in casks or cases as preferred. Quality unrivalled.

GROVE CHEMICAL CO., LTD., Appley Bridge, Lancashire, Eng.

Clauss Brand Ladies' Scissors

FULLY WARRANTED



Our Eastern Pattern Ladies' Scissors. This is an exceptional scissor, adapted for clean-cutting work where stiffness of blade is required. Hand forged from finest steel. Ask for discounts.

THE CLAUSS SHEAR CO., Toronto, Ont.

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THIS **BRAND** STANDS FOR **QUALITY**



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Montreal and Toronto
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Manufacturers of
PAINTS, COLORS AND VARNISHES
FOR
HOUSE OWNERS HOLDERS PAINTERS
COLORS AND VARNISHES
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CARRIAGE IMPLEMENT WAGON FURNITURE MAKERS
Paint for
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First Hands for all
Painting Material

THE
Canada Paint
Company, Limited

No. 3, $3.62 1-2; No. 4, $3.35 in packages of 25 lbs and upwards; 1-2c. per lb. extra will be charged for 12 1-2 lb packages; genuine dry white lead, in casks, $4.25.

Red Lead—Genuine in casks of 560 lbs., $4.50; ditto, in kegs of 100 lbs., $4.75; No. 1, in casks of 500 lbs., $4 to $4.25; ditto in kegs of 100 lbs., $4.50.

White Zinc—Genuine French V. M., in casks, $6.50 to $7; Lehigh, in casks, $6 to $6.50.

Shingle Stain—In 5 gallon lots 75 to 90c. per gallon.

Paris White—90c. to $1 per 100 lbs.

Whiting—60 to 65c. per 100 lbs; Gilders' whiting, 75c.

Shellac—Pure orange in barrels, $2.75 to $3; white, $2.85 to $3.10 per barrel; No. 1 (orange), $2.25.

Linseed Oil—Our quotations are: Raw, 1 to 4 barrels, 55c.; boiled, 58c.; 5 to 9 bbls., raw, 54c.; boiled, 56c.; Toronto, Hamilton, London, and Guelph, net 30 days. Advance of 2c. for delivery to outside points.

Turpentine—Single barrels, 95c.; 2 to 4 barrels, 94c.; 5 barrels and over, open, f.o.b. point of shipment, net 30 days. For less quantities than barrels, 5c. per gallon extra will be added, and for 5 gallon packages, 50c., and 10 gallon packages 80c. will be charged.

Paris Green—600 lb. barrels, 13 1-4c.; 250 lb kegs 13 1-2c.; 50 lb drums, 14 1-2c.; 1 lb. packets, 15c.

Glues—Broken sheet, in 200 lb. barrels, 5 to 25c. per lb.; cabinet glue, in barrels, 11 1-2 to 12c.; emery glue, in barrels, 15c.; bookbinders' ground, 11 1-2c.; finest American white, 19c.; No. 1 American white, 15c. per lb.

Putty—Ordinary, bladders in barrels, $1.65 to $1.75; pure linseed oil, $2 to $2.10; bulk in barrels, $1.50; pure, $1.95 to $2; 100 lb. kegs 25c. extra.

Plaster Paris—New Brunswick, $2 per barrel.

Liquid Paints—Pure, $1.20 to $1.35 per gallon; No. 1, $1.10 per gallon.

Barn Paints—70c. to 80c.

Bridge Paints—75c. to $1.

Castor Oil—English, in cases, 8 1-2 to 9c. per lb., and 10c. for single tins.

Refined Petroleum — Opening of navigation has brought an increase in business. We quote: Water white, 16c; Canadian prime white, 14½c.; American water white, 16½c. to 18½c. ex warehouse.

Crude Petroleum—A further drop is noted. We quote: Pennsylvania, $1.29; Ohio, 84c.; Somerset, 81c.; Indiana, 88c.; Canadian, $1.27.

Glass—See current quotations at the end of this issue.

Window Glass.

No definite change has occurred during the past week. The latest reports received still tend to show that the labor troubles are continuing unabated, and, that at present, there is nothing that would warrant an early settlement. Small shipments are arriving periodically, but these when taken into comparison with the present demand are, as it were, lost sight of, and in order to satisfy the demand large orders are being booked for English and American window glass. These conditions mentioned are more noticeable in connection with the last-named glass, prominent contractors having placed some large orders within recent date. The demand of this year has never been equalled, and it is probable that if the market was free from present troubles the amount of business transacted this year would be far in excess of anything realized in former years. Prices are all firm, but no advance is anticipated. We quote as follows: First break, 50 feet, $2.00; second break, $2.10; first break, 100 feet, $3.75; second break, 100 feet, $3.95; third break, 100 feet, $4.50; fourth break, 100 feet, $4.75; fifth break, 100 feet, $5; sixth break, 100 feet, $5.50; seventh break, 100 feet, $6.00; and eighth break, 100 feet, $6.50. Diamond star, first break, 50 feet, $2.30; second break, 50 feet, $2.50; first break, 100 feet, $4.40; second do., $4.80; third do., $5.75; fourth do., $6.50; fifth do., $7.50; sixth do., $8, and seventh do., 9. Double thick, first break, 50 feet, $3.45; second do., $3.75; first break, 100 feet, $6.75; second do., $7.25; third do., $8.75; fourth do., $10; fifth do., $11.50; sixth do., $12.50; seventh do., $14; eighth do., $16.50; ninth do., $18; tenth do., $20; eleventh do., $24, and twelfth do., $28.50.

Grocers complain that the hardwaremen are getting their trade on brushes, brooms, washboards, mops, rope, tubs, lamp goods, and a number of other lines that have been handled in both sorts of stores more or less. That speaks well for the hardwareman. He is entitled to all of this trade he can honestly get.

Carpet beaters, step ladders, brooms, dusters, brushes, lace curtain frames, and a lot of other house-cleaning appliances are wanted right now. Make up a "house-cleaning window."

* * *

The doors on the hardware store should be models of ease in opening and closing. If you sell door checks you should show your faith by using them yourself.

TO HARDWARE DEALERS.

As the farmer is the sinew of the country in agriculture, so the merchant and dealer are the sinews of trade and commerce, hence the necessity of a full knowledge of the industries and products of the country in compact form for the merchants' and dealers' information and guidance.

The up-to-date merchant is not relying wholly upon the traveling salesman for information, nor "Hellowing" to his neighbors for information as to who manufactures this or that article when he can get all such from a two-dollar book that is now on the market.

The Manufacturers' List Co., Montreal, issue: The Canadian Industrial Blue Book, Buyers' Guide of Canada, 1904-7, 576 pages, cloth bound, price $5; A Classified Article List of Industrial Products for Canadian Buyers, 1905-6, 400 pages, cloth bound, price $2. Both books to one address, $5 (Adv. tf).

Business Changes

ONTARIO.

J. Gracie, blacksmith, Beachburg, was burned out; no insurance.

G. W. Little, hardware dealer and tinsmith, Chatsworth, is dead.

W. A. Sanderson, harness dealer, Marmora, has suffered loss by fire.

R. B. L. Scriven, tinsmith, Otterville, has advertised his business for sale.

J. J. Mott, hardware and stove dealer, Toronto, has sold to H. & G. Jamieson.

M. Wooldridge, proprietor of saw and planing mill, Palmerston, has been burned out.

W. J. Green, harness dealer, Marmora, has assigned to A. W. Carscallan; a meeting of creditors to be held May 23.

QUEBEC.

McCarthy & Wood have been registered as plasterers, Montreal.

Rollin & Lamoureux, hardware and paint dealers, Montreal, have dissolved partnership.

A meeting of the creditors of Lussier & Durocher, carriage makers, Valleyfield, was held May 17th.

NEW BRUNSWICK.

L. B. Ayer, harness dealer, Petitcodiac, has been succeeded by T. Drysdale.

MANITOBA AND N.W.T.

J. Bostrom, builder, Crystal City, has moved to Winnipeg.

J. A. Hillier, blacksmith, Regina, has sold to M. Norgang & Co.

Belkey & Bauer, blacksmiths, Weyburn, have been succeeded by F. C. Bauer.

J. A. Body & Co., manufacturers of linseed oil, etc., Winnipeg, have sold out to the Canada Paint and Oil Co.

BRITISH COLUMBIA.

Fife & Hunter, hardware dealers, Vancouver, have been succeeded by the Geo. Hunter Hardware Co., Limited.

THE STORY OF BABBIT METAL.

EVERY engineer uses babbit. Every engineer and mechanical man uses the name "babbitt" with perfect familiarity, but we believe that few really know where the name originated or anything further about it.

Although Isaac Babbitt was the inventor of the method of using soft metals in journal boxes, his patent specification makes no claim on the alloy itself, but simply on the method of holding the soft metal in place. He was born in Taunton, Mass., on July 26, 1779, and after learning the trade of goldsmith, in 1824 made the first britannia ware produced in the United States, but this enterprise proved unsuccessful. He then removed to Boston and entered the employ of the South Boston Iron Works, and in 1839, while an employe of this establishment, he produced the invention which has perpetuated his name. For this invention he was given a gold medal from the

ONE CENT *Is it worth one cent to know well not only the paints and brushes you are selling but also those your competitor is selling? A Post Card sent to our advertisers will bring you full information about their goods.*

We Have the Glass You Want

—THE PRICE IS RIGHT.—

Our Distributing Centres keep down your freight charges and give a speedy delivery

The Consolidated Plate Glass Co., of Canada, Limited

TORONTO MONTREAL LONDON
OTTAWA WINNIPEG

WHITE LEAD BUYERS, ATTENTION

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CANADIAN STANDARD

THE WHITE LEAD PAINT CONTAINED IN THIS PACKAGE IS GUARANTEED BY THE WHITE LEAD ASSOCIATION OF CANADA TO BE ABSOLUTELY PURE.

THE WHITE LEAD ASSOCIATION OF CANADA GUARANTEED PURE LEAD AND OIL

John Hoyles

MONTREAL. 479001

Accountant and Trustee, Secy. of the Association.

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THE LEADERS



STYLE "A"



STYLE "E"

Style "A" with Double Reversible Steel Bow Lever, Patented Cream Breakers.

Style "E" with Hand and Foot combination drive and spring attachment, producing an easy and elastic motion.

The Pittman is quickly detachable from churn.

Both styles are fitted with our improved Steel Ball Bearings and mounted on Rigid Angle Steel Stands.

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HAMILTON, ONT.

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Nickel plated, fancy, household and kitchen articles; advertising and shop front clocks; articles for export made to order and German hardware bought and shipped on commission.

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HARDWARE AND METAL has enquiries from time to time from manufacturers and others wanting representatives in the leading business centres here and abroad.

Firms or individuals open for agencies in Canada or abroad may have their names and addresses placed on a special list kept for the information of enquirers in our various offices throughout Canada and in Great Britain without charge.

Address
Business Manager
HARDWARE AND METAL
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SIGNS

Write for our new Catalogue giving illustrations and prices of different style signs and when you receive it sit down and think how much better your Store will appear when you have one of our Signs in position. Your Store Front should appear as bright and fresh as the goods you have for sale. It is the sole introduction to prospective customers.

Canada's Leading Sign Writers
The Martel-Stewart Co., Ltd.
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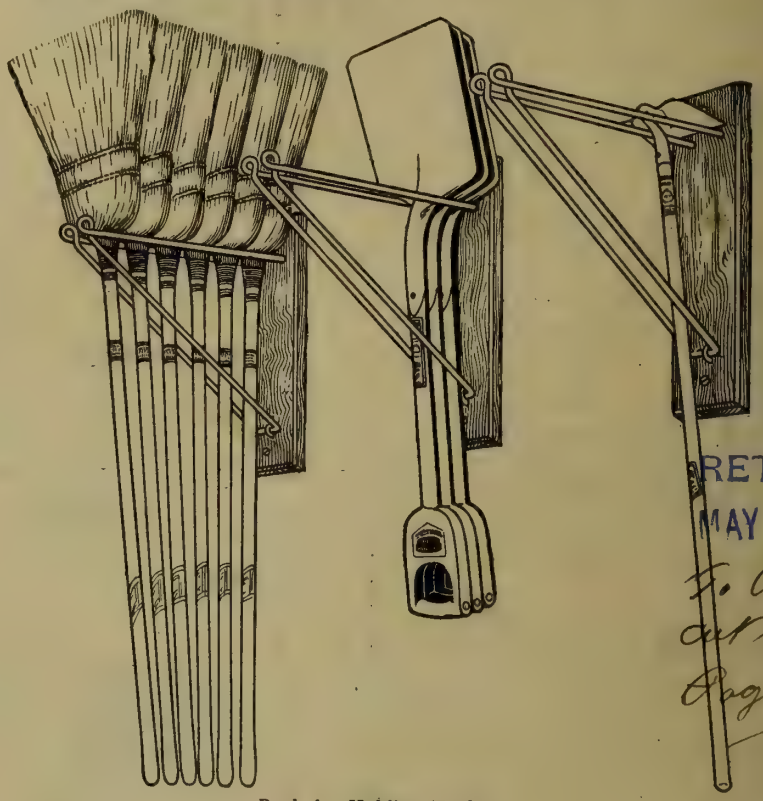
Massachusetts Charitable Mechanics' Association, and afterward Congress granted him the sum of $20,000 as a reward. In 1844 the invention was patented in England and in 1847 in Russia. After devoting some time to the production of metals, he engaged in the manufacture of soap, so that his name has become almost a household word. He died insane at the McLean Asylum, Somerville, Mass., on May 26, 1862.

The fact that in the patent specification no claim is made for the alloy, is sufficient to dispel the ordinary belief in this direction. Britannia metal, pewter or an alloy of tin, fifty parts; antimony, five parts, and copper, one part, are recommended. The latter alloy is somewhat softer than that known as "genuine babbitt," which is commonly composed of tin, ninety-six parts; antimony, eight parts, and copper, four parts. The original idea in the use of a soft metal was practically the same as it is now; i. e., to make a bearing which would conform to the surface of the axle. It is natural, then, that the alloys used to-day are somewhat harder than the original material employed. It is also natural that the same Isaac Babbitt should have been handed down to posterity as the inventor of the alloy, although, of course, quite erroneously.

Oil cans for the lawn mower, the sewing machine, the bicycle and the automobile are seasonable. So is machine oil of all kinds from fine grades for clocks to the heaviest axle grease.

RACK FOR HOLDING TOOLS.

THE Danhour Patent Tool Rack, which is illustrated herewith, is a specialty which is made in two sizes of heavy coppered wire, its carrying strength being 200 to 300 pounds. The frame is a strong wooden back, varnished and bored for nails, screws or hooks. No. 1 is intended for store use, has 14-inch arms, and will hold from 6 to 12 brooms, scoops, shovels, forks, etc. It can be placed stationary by putting a screw at top and bottom of slot, or can be hung in any vacant place or any nail or screw. No. 2 is for farmers' or gardeners' use, has a 10-inch arm, and will hold 7 or 8 tools.



Rack for Holding Tools.

Can be hung in a barn, or outhouse, and the tools usually kept on the farm will always be found in place. This forms an admirable device for holding harness. The Tucker and Dorsoy Mfg. Co., Indianapolis, Indiana, are the manufacturers.

FAIRBANKS SCALES FACTORY.

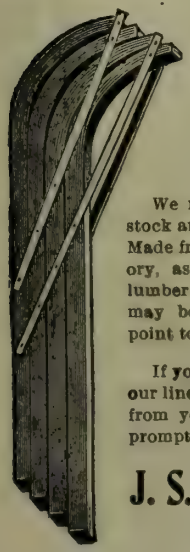
Toronto has secured the new Canadian factory of Fairbanks, Morse & Co., Chicago, who intend employing several hundred men in manufacturing the Fairbanks' scales for the Canadian market. The site secured is in the northwestern part of the city and adjacent to the G. T.R. and C.P.R. tracks. The Canadian Fairbanks Co. will, as before, act as exclusive sales agents for the product of the factory.

RETURNED
MAY 20 1905
F. Owner
Out Book 35
Page 4

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WORK AND PRICES RIGHT
GALVANIZING
ONT. WIND ENGINE & PUMP CO. LIMITED.
TORONTO, ONT.

The Sarnia Hub, Spoke and Bent Goods Mfg. Co.,
SARNIA, ONTARIO



We are prepared to fill any orders for

HEAVY WAGON, SLEIGH, BUGGY, —and— CUTTER STOCK.

We make a specialty of heavy stock and can fill orders promptly. Made from the best of oak and hickory, as we carry a large stock of lumber and can make any sizes that may be required. We make it a point to fill orders promptly.

If you are in need of anything in our line we will be pleased to hear from you and we will give it our prompt attention.

J. S. Loughead & Son
SARNIA, ONT.

THE BEST
SOUTH WALES PRODUCES
in
TERNE PLATES
"DEAN" *The original brand with the coating that lasts.*
In
POLISHED CANADA PLATES
"FRONTIER"
Black, color and fine polish.
STEEL
that seams without breaking.

FRANKLIN SAUNDERS & CO.
Limited
MONTREAL
Wholesale Trade Only Supplied

Why don't you try



Galvanized Sheets
Once bought, always bought by those who know value for money

MAKERS J. SUMMERS & SONS, Limited.
AGENT F. HANKIN, Montreal.

ASK YOUR JOBBER FOR
GILBERTSON'S
COMET

Brand Galvanized Sheets
They are of uniform quality. There are none better made, but the price is low compared with other leading brands.

Makers: W. GILBERTSON & CO., Limited
Pontardawe, South Wales.

OUR AGENTS
MESSRS. WAYLAND, WILLIAMS & DADSON
28 BOARD OF TRADE BUILDINGS, MONTREAL

are carrying a stock of our goods and will be pleased to have your inquiries for **Hex.** and **Square Cap Screws, Square Head Set Screws, Bright Washers,** and **Bright** and **finished Hex. Nuts.** The quality is right, and we can give you good deliveries.

ACME LATHE & PRODUCTS CO., LTD.
MANCHESTER.

W. I. W. Hoops
"DEAN" Terne Plates
Imitation Russian Iron
LOWEST PRICES

J. A. HENDERSON, Board of Trade Bldg., MONTREAL
Agent for T. W. & J. WALKER, Wolverhampton

H. & R. SINGLE GUN AUTOMATIC AND NON-EJECTING

2, 16 and 20 Gauge
Steel and Twist Barrels
Superior in Design, Workmanship and Finish, and the most popular Gun on the Market.



Simplest "Take Down" Gun Made

HARRINGTON & RICHARDSON ARMS CO.
Also makers of H. & R. Revolvers.
Catalog on request. Worcester, Mass., U.S.A.



A Good Line
Beaver Post-Hole Digger

Will please your customer. A pleased customer is an asset to any business.

No wood to rot, check or break. Special discounts to the trade.

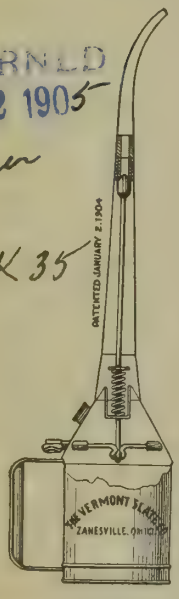
Canada Foundry Company, Limited
HEAD OFFICE AND WORKS: TORONTO, ONT.
District Offices: Montreal, Halifax, Ottawa, Winnipeg, Calgary, Vancouver, Rossland.

STOVES AND TINWARE.

Political Advertising.

The McClary Manufacturing Co. are doing some novel advertising in the daily papers throughout Canada, the series consisting of a dozen ads., showing twelve of Canada's leading statesmen attending the well-known McClary "Sunshine" Furnace. The sketches were drawn by a cartoonist who is well up in character sketching, and the illustrations are true representations of the different politicians. These ads. will not only be interesting but should prove educative. The text in the advertisement is very brief, and quite in keeping with the cartoon style of the drawings. Only a phrase is used, and they are all interesting, as each one is particularly applicable to the politician to whom it refers.

Vermont Safety Oil Can.



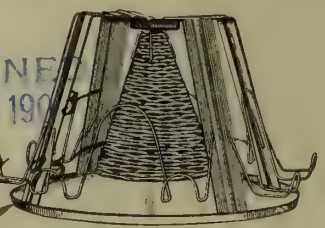
This new patent hand oiler is especially adapted for the use of railroad companies and manufacturing establishments, wherever machinery is used. The mechanical construction of this can is such that by simple thumb pressure the flow of oil is regulated and can be gauged to a drop, thus placing the lubricant where needed, doing away with all waste, and effecting a great saving in oil. Special attention is called to the compression springs, which cannot be strained or broken. The oilers are manufactured in tin, brass and copper, in several sizes, and with bent and straight spouts of various lengths. The Vermont Slate Co., Zanesville, Ohio, are the manufacturers.

An Up-to-Date Plan.

A "Model Kitchen" is a scheme which may be made a trade winner. One merchant recently set apart a portion of his second floor, on which stoves and other house furnishing goods are carried, for this purpose. The space measured 10 x 16 feet, around which he built a plain board partition, provision being made for windows, etc. The room thus devised was equipped with a fine steel range, kitchen furniture and a full assortment of kitchen requisites. Adjoining this room was another, considerably smaller in dimensions, which served as a pantry. The walls of both rooms were finished smooth in imitation of plaster or tile. The floor was covered with oilcloth, but this would be unnecessary where the boards were good. With the "Model Kitchen" completed the merchant invited the public, particularly the fair sex, to come and inspect it, an invitation which was accepted by many with financial results gratifying to the proprietor of the establishment.

Wire Cone Toaster.

The device which we illustrate herewith is capable of toasting five slices of bread on any gas, gasoline or oil stove. It has a convex bottom, will fit any stove, and has a grooved edge to catch the crumbs, while the peculiar construc-



Wire Cone Toaster.

tion of the wire cone enables it to throw out heat similar to a bed of coal. The wire toaster racks provide for four slices, while another can be placed on top, or a tea or coffee pot can be heated on top. Harkins & Willis, Ann Arbor, Mich., are the manufacturers.

New Foundry in B.C.

The Record Foundry & Machine Co., of Moncton, N.B., and Montreal, are loking for a site for a new branch foundry at Vancouver or Victoria, both of these cities being prepared to offer special inducements. The high freight rates are said to allow a great margin upon which to work, while pig iron and labor can be purchased in the west at very little more than in the east.

Seasonable Suggestions.

Keep the row of display stoves straight and clean.

Don't neglect the polish. A generous stock of this near the door will catch the eye of the customer and remind him of his needs in that line.

Has the range peddler got busy in your community yet? It is about time for him to start out with his "tin" range. Head him off by advertising.

Camp stoves should be selling now. Have you any in stock? There are a lot of them sold in the Northwest in the course of a Summer, but, sad to relate, most purchasers send to the sporting goods houses for them. There is no need of this. Every stove dealer can handle them and should do so.

SOLARINE LIQUID METAL POLISH
CASTILE CREAM Harness Soap.
1,000 MILE Axle Grease.
Mail Orders shipped same day received.
H. F. FALKINER,
60 George St., TORONTO



OAKEY'S The original and only Genuine Preparation for Cleaning Cutlery. 6d. and 1s. Canisters
'WELLINGTON' KNIFE POLISH
JOHN OAKEY & SONS, LIMITED
MANUFACTURERS OF
Emery, Black Lead, Emery, Glass and Flint Cloths and Papers, etc.
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MONTREAL.

STRONG DURABLE LIGHT



POROUS AND CHEAP

RUSH ORDERS
for Flower Pots, Fern Pans, Saucers, etc., filled on day of receipt.
Assortments No. 1 and No. 2 at $5.10 and $4.15 respectively are good buying. The waste is eliminated.
The FOSTER POTTERY CO.
HAMILTON. Limited

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Woven Wire Fencing



MAKES MONEY FOR YOU
Your customer, the farmer, wants a fence that can be put up quickly and easily just when he wants it. Hand made fences cost too much when you figure the time it takes to build them, to say nothing of the hard work.
Why not sell "The Ideal," the best woven wire fence made? You can build up a permanent trade that will pay you as much as any line you are handling. Other hardware merchants are doing it. Why not you? The Ideal will give satisfaction to your customer and make him your friend.
Have you seen the Ideal? Let us send you a sample and catalogue showing why Ideal fence made from No. hard steel wire throughout is the strongest and the best value.
Ask us about the Ideal all metal farm gate.
The McGregor-Banwell Fence Co., Limited,
WALKERVILLE, ONT.
Merrick, Anderson & Co., Winnipeg, Man.
ole agents for Man. and N.W.T.

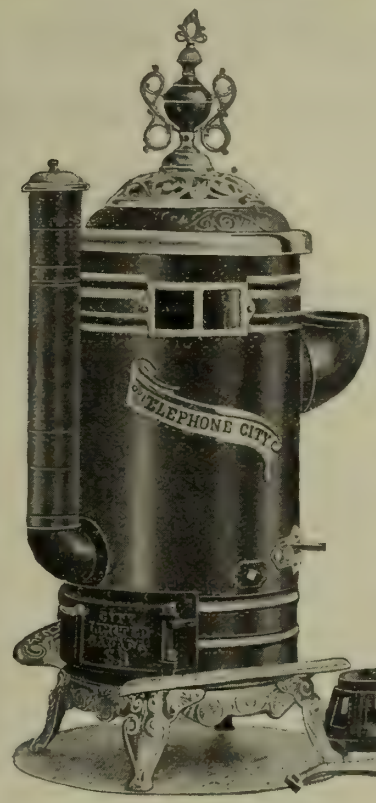
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AKRON, Ohio



"SIXTY" SERIES

"TELEPHONE CITY"

Patent Top Draft Coal Heaters
Cast Top and Base

4 Sizes Single and one Double Heater.

This series is fitted with either an improved Draw Centre Grate or the Ransom Duplex Grate.

A Special Ventilating Check Damper given with each stove.

The circulation of hot air is indirect and compels perfect radiation. The stoves are great fuel savers and wonderful heaters. Send for catalogue and prices.

We also make the "Fifty" series of coal heaters and the "Telephone City" and "Mohawk" air tight wood heaters.

TELEPHONE CITY STOVES, Ltd., BRANTFORD, CANADA.



To give the best value is the object of every successful merchant. You certainly do give it when you sell the

OXFORD CHANCELLOR RANGE

The Oxford Chancellor Range is built of patent levelled steel plate closely riveted to an asbestos interlining—perfectly air tight.

All the accessories are built on a solid plan. The oven racks are of pressed steel, the ash-pan is large and heavily made.

The Oxford Chancellor can be fitted to burn either coal or wood.

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BUILDING AND CONSTRUCTION

A New Building Material.

A NEW building material has been invented by a Russian engineer. It is called uralite, evidently in honor of the valley of the Ural, from which district the young Russian comes. It is said to be far superior to anything of the kind ever before placed on the market, as it takes the place of both wood and stone. It is also absolutely fire-proof.

Uralite is composed of asbestos fibre, with a proper proportion of silicate, bicarbonate of soda and chalk, and it is supplied in various finishes and colors, according to the purpose for which it is intended. In a soft form a sheet of uralite is like an asbestos board: when hard it resembles finely-sawn stone and has a metallic ring. Besides a non-conductor of heat and electricity, it is practically water-proof (and may be made entirely so by paint), and is not affected either by atmospheric influences or by the acids contained in smoke in large towns, which rapidly destroy galvanized iron. Moreover, it can be cut by the usual carpenters' or woodworkers' tools; it can be veneered to form paneling for walls or partitions; it can be painted, grained, polished and glued together like wood; it does not split when a nail is driven through it; it is not affected when exposed to moisture or great changes of temperature, and it can be given any desired color either during the process of manufacture or afterward.

A Building of Concrete.

The building being erected on Front street, Toronto, between the new premises of The Copp-Clark Co. and W. J. Gage & Co., will be seven storeys, built entirely of re-enforced concrete, the floors, roofs, columns, staircases, and interior partitions being all of this non-combustible material. With wired glass throughout, together with metal-covered windowsills, the building will be as nearly fireproof as it is possible to make it. It will be used as a combined office and warehouse building, aad will cost about $65,000.

A New Cement.

Cement manufactured from chemical refuse is the latest evolution of the trade in England. The immense waste heaps composed principally of sulphate of lime, which are to be seen at many of the chemical works in England, are to be used in making this new cement. The process consists of re-crystallizing this waste into a patent white cement, which gives a perfectly smooth surface, with a polish similar to glass and yet sufficiently porous to take paint. This cement can be used for the same purposes as other cements and is said to have an advantage in it, that whilst they require a backing of Portland cement, it can be used with Portland or backing of two parts sand and one part of the plaster itself. Other advantages claimed are that it takes less time to spread with the corresponding saving in labor and wages. This cement has been tested at the hydraulic cement works and it created much surprise by standing a tensile strain nearly equal to the best hydraulic cement.

Building Notes.

A new hospital is to be erected at Moosomin.

T. Thomas is erecting an $8,000 building in Quebec.

A new fire hall, to cost $25,000, will be built in Toronto.

W. White, K.C., is erecting a fine office building in Moosomin.

Sudbury will build a new $15,000 public school this Summer.

The Brunswick Hotel, Winnipeg, is to be re-constructed this Summer.

Charles Proctor, Toronto Junction, is erecting two houses to cost $1,900 each.

F. Simard & Co., are making additions to a building in Quebec to cost $15,000.

A modern business block will be erected on Government street, Victoria, B. C., by M. Promas.

A three-storey stone-and-brick block is to be built in Vancouver by Ald. Cook, the cost to be about $20,000.

The D. Conboy Carriage Co. will erect a $75,000 factory in Toronto and employ 200 hands to make carriage tops.

A 3,000-barrel flour mill will be erected at St. Boniface, Man., by S. A. McGaw, Goderich, and A. Kelly, Brandon.

A $1,000,000 company is being floated in Winnipeg to erect a million-dollar arcade. A. & W. Melville, architects, are drawing up the plans.

The Melrose Co., Victoria, B.C., doing a large wholesale trade in wall papers, paints, oils and varnishes, will erect a five-storey building on Broad street in that city.

The contract for the new steel bridge over the Sauble River, near Allenford, has been given to the Hamilton Bridge Co., and the abutments to D. Keys, of Kincardine.

A quarter of a million dollars' worth of buildings are being erected at Galt. A new foundry, costing $100,000, and a knitting factory, costing a similar amount, are under way.

E. B. Patterson, Hamilton, will build a brick house of Sophia street to cost $1,550. He will also build four brick dwellings on the corner of Barton and Locke streets, for Thomas Lewis, to cost $5,000.

Up to May 15, building permits to the number of 802 have been issued in Toronto. Last year up to June 30 only 743 had been given out. It is probable that the six months' period of 1905 will show an increase of from 200 to 300 permits over last year.

One of the most noticeable features today in the building and construction trades is the fact that numerous western railroads (American) are abandoning the wooden and terra cotta culverts, trestles, and bridges, and are placing in their stead concrete. This change in all probability is due to the increased traffic which in turn causes a heavier strain on the road.

Building Permits.

MONTREAL.

A. Despatie, dwellings, 154 Lagauchetiere street, $3,000.

Joseph Girard, dwellings, 903 St. Denis street, $5,000.

P. Damien, dwellings, 339 Mount Royal avenue, $2,000.

N. Morrier, dwellings, Boyer street, Duvernay Ward, $2,300.

J. B. Duquette, dwellings, Marquette St. Denis Ward, $1,500.

C. Gagnon, dwellings, Cardinal street, St. Danis Ward, $1,500.

T. Forget, dwellings, Huntley street, St. Denis Ward, $2,000.

Mrs. E. Duferrault, dwellings, 916 Dorchester street, $10,000.

W. Martineau, alterations to dwellings, 418 Beaudry street, $1,600.

A. Beaudoin, dwellings, Mentana street, Duvernay Ward, $1,600.

J. B. Inceault, dwellings, Labelle street, St. Denis Ward, $1,500.

M. Turcotte, dwellings, Cardinal street, St. Denis Ward, $1,500.

J. O. Pesant, dwellings, Maisonneuve street, Papineau Ward, $2,000.

Joseph Renaud, dwellings, Davidson street, Hochelaga Ward, $2,000.

Mrs. A. Senecal, dwellings, Cuvillier street, Hochelaga Ward, $2,000.

Miss B. Gooley, dwellings, City Hall avenue, St. Louis Ward, $5,000.

P. Daigneault, dwellings, Mentana street, Lafontaine Ward, $4,500.

N. Deschesnes, dwellings, Aqueduct street, St. Joseph's Ward, $3,000.

Mrs. N. Geoffrion, dwellings, Mountain street, St. Andrew's Ward, $6,000.

Miss J. A. Davie, alterations to dwelling, 131 Mansfield street, $5,000.

R. Marien, dwellings, Champlain street, St. Mary's Ward, $2,000.

Joseph Chartrand, dwellings, Mount Royal avenue, St. Denis Ward, $2,000.

Joseph Lacasse, alterations to dwellings, Joliette street, Hochelaga Ward, $2,000.

J. A. Peladeau, alterations to dwelling, Rivard street, St. Denis Ward, $1,600.

Sisters of Congregation, Notre Dame, religious institution, Sherbrooke street, St. Andrew's Ward, $4,200.

Seminary of St. Sulpice, alterations to convent, 66 to 84 St. Paul street, $8,000; also alterations to convent and dwelling, 1,674 St. Catherine street, $1,000.

"DOMINION BRAND"
TARRED FELT
(THE OLD RELIABLE QUICK SELLER)

ROOFING PITCH
COAL - TAR

WHEN YOUR TRADE DEMANDS **THE BEST** ROOFING MATERIALS

CONSULT THE WELL-KNOWN MANUFACTURERS

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Steel Roofing and Siding, $2.00 per 100 Sq. Ft.

Painted red on both sides. Most durable and economical covering for **Roofing or Siding, for Residences, Houses, Barns, Elevators, Stores, Churches, Poultry Houses, Cribs, etc.** Easier to lay and will last longer than any other covering. Cheaper than wood shingles or slate. No experience necessary. A hammer and snips are the only tools required. It is semi-hardened high grade steel. **Brick or Stone Siding at $2.00 per 100 Square Feet. Pedlar's Patent Steel Shingles at $2.50 per 100 Square Feet.** Also **Corrugated Iron, Painted or Galvanized,** in sheets 96 inches long. **Beaded and Embossed Ceilings. V Crimped Roofing.** 2000 designs of Roofing, Siding and Ceilings in all grades. Thousands of buildings through the Dominion covered with our Sheet Metal Goods making them

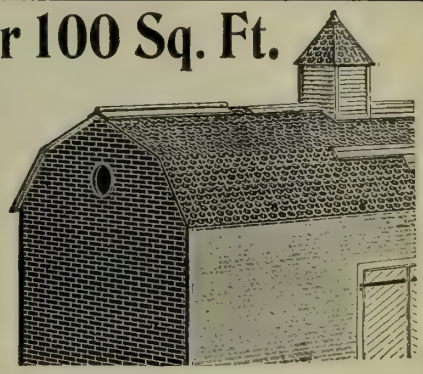
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All goods shipped day after order is received. We are the largest concern of the kind under the British Flag. Established 1861. Capital Invested $150,000.00.

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Eastern Warehouse—767 Craig St., Montreal, Quebec.





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The reason why ***Gurney Cylinder Locks*** succeed where others fail is due to the fact that every inch of material is examined before construction commences and the performing ability of each lock examined after construction ends—all this on every lock before it reaches you. ***Gurney Cylinder Locks*** have been tried in every part of the country and in all manner of conditions. They have been tried and proven to be ***The Lock.*** The difference in price is sufficient cause for their getting the preference over American goods. We will send you our catalogue on request.

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TORONTO.

F. Weale, dwelling, on Lindsay avenue, $1,500.

D. Winslow, dwelling, on Essex street, $1,000.

J. W. Gray, dwelling, 56 Huntley street, $5,500.

R. W. Pritchard, dwelling, 137 Victor avenue, $1,400.

H. G. Rawlinson, dwelling, 477 Clinton street, $1,500.

M. A. Pennock, dwellings, on Gore Vale avenue, $3,500.

James J. Walsh, dwellings, 94 and 96 Dunn avenue, $7,500.

T. C. Scott Co., office building, 108 River street, $5,000.

A. W. Sale, dwelling, on west side Pape avenue, $1,500.

Mrs. Mathewson, dwelling, on east side Huron street, $4,400.

John Prearce, dwellings, east side Beatrice street, $4,000.

M. S. Tyndall, dwelling, on west side Curzon street, $2,000.

Wm. Murray, dwellings, on west side Kendall avenue, $6,000.

Mrs. Robert Whitlock, dwellings, on William avenue, $2,600.

Joseph Bryant, dwellings, on west side Montrose avenue, $4,200.

J. W. Walker, dwellings, on east side Bathurst street, $12,000.

Walter M. Adkins, dwellings, on south side Myrtle avenue, $2,100.

Robt. A. Unsworth, dwellings, on east side Logan avenue, $2,500.

Thomas Harman, dwelling, on east side Euclid avenue, $5,000.

A. Rawlinson and C. Smith, dwelling, 479 Clinton street, $1,500.

C. P. Godden, dwelling, on east side Palmerston avenue, $5,000.

Gertrude Smith, dwellings, on north side Dagmar avenue, $2,500.

W. H. Horrocks, dwellings, on north side Aberdeen avenue, $4,000.

Capt. A. Malone, dwelling, on east side Pembroke street, $4,000.

W. R. Johnston & Co., office and factory, 42 York street, $3,200.

Massey-Harris Co., warehouse, on east side Strachan avenue, $125,000.

H. W. Love, dwellings, corner First and Broadview avenues, $16,000.

Mrs. E. C. Harkins, dwellings, corner Grace and Arthur streets, $12,000.

H. Gordon MacKenzie, dwelling, on east side Crawford street, $4,000.

Brereton & Manning, warehouse, 59 and 61 Wellington street west, $25,000.

Alex. Cameron, dwelling, corner Palmerston avenue and London street, $2,000.

VANCOUVER.

J. Parslow, dwelling, Seymour street, $1,600.

Thomas Desantes, dwelling, Homer street, $1,500.

J. G. Mortimore, dwellings, Bidwell street, $2,400.

The Hanover Portland Cement Co., Limited

HANOVER, ONTARIO

Manufacturers of the celebrated **"Saugeen Brand"** OF PORTLAND CEMENT.

Prices on application.

"THE EMLYN" SAW BENCH

Made in 6 sizes. Best value obtainable. Specially designed for export With or without "Emlyn" Patent Guard. Sole maker—

CHARLES D. PHILLIPS,

Cables— "Machinery," Newport. Emlyn Engineering Works NEWPORT, MON., ENGLAND

The Best Door Closer Is . . .

NEWMAN'S INVINCIBLE FLOOR SPRING

Will close a door silently against any pressure of wind. Has many working advantages over the ordinary spring, and has twice the wear. In use throughout Great Britain and the Colonies. Gives perfect satisfaction. Made only by

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"HERCULES" BRAND PORTLAND CEMENT

Manufactured by

THE GREY & BRUCE PORTLAND CEMENT CO.

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J. McLAUCHLAN, President.

A PERMANENT and Handsome Roof.



Arrow Brand Asphalt Ready Roofing

Will bring you profitable trade and satisfied customers. Comes in rolls ready to lay, all ready covered with gravel. Requires no experience to lay, and lasts for years without further attention.

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Sole agents being appointed in each district. Write to-day.

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Gives Life and Durability to Hardwood Floors (new or old).

PRICE—IN BBL. LOTS $1 00 PER GAL. SINGLE GALS., $1.25.

DEALERS SELL TRY IT. For further particulars write

O-So-Ezy Mfg. Co., Limited, 205 St. James St., Montreal

Are you interested in any of the lines that are advertised?

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Don't forget to mention Hardware and Metal.

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NEW BRITAIN, CONN., U.S.A.

IMPROVED CARPENTERS' TOOLS

SOLD BY ALL HARDWARE DEALERS.



The 50-foot Awning we made for Ryrie Bros., Toronto

Our Steel Roller needs no centre support when used on awnings 23 feet or under.

They do not warp, and run true and easily.

Why not get the best when you can do so at small cost?

Our Sprocket and Chain Operating Gear and Steel Rollers are a trade-winning pair.

Send Measurements for Price.

WM. BARTLETT & SON, 16 Adelaide St., West, Toronto.

Toronto Rubber Roofing

WEATHER-PROOF,
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Send for Samples

A VERY SALABLE ARTICLE

Best Prices to Trade

All material complete in each Roll.

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The Finest on Earth

When seeking quality in saws the intelligent mechanic need go no further than the Atkins high-grade Silver Steel Hand Saws. In material, temper, finish, and cutting qualities they are perfect.

The Atkins Silver Steel Hand Saws with Perfection handle sell at sight. Dealers everywhere find them a good investment.

Write for catalog and prices.



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"LET THERE BE LIGHT!"

"Let there be Light!" and let it come from **MAXIMUM LIGHT GLASS** and you will then be assured of its quantity and its continuity.

MAXIMUM LIGHT GLASS

has no equal anywhere for radiance-shedding. It is not to be confused with ordinary corrugated or prismatic glass. It is a daylight-increasing Window Glass, combining Lenses and Prisms.

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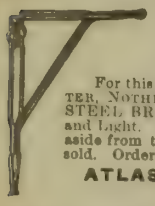
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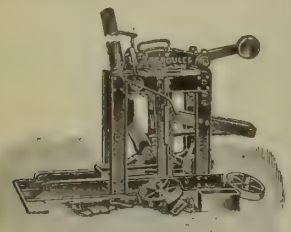
Will Hold Up a Shelf!

That's what a shelf bracket is for.

For this purpose there can be NOTHING BETTER, NOTHING CHEAPER than the BRADLEY STEEL BRACKET. It is well Japanned, Strong and Light. The saving in freight is a good profit, aside from the lower price at which the goods are sold. Order direct or through your jobber.

ATLAS MFG. CO.,
New Haven, Conn., U.S.A

Bricks! Bricks! Bricks!



If you know o anyone intending to make bricks, induce him to use one of our

Hercules Handpower Press

IT WILL PAY YOU

No previous experience needed.

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Double Strength Culvert Pipe a Specialty.

THE CANADIAN SEWER PIPE CO.

HAMILTON, ONT. TORONTO, ONT.
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reports weekly all projected building and other construction works throughout Canada as well as new business enterprises.

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INDUSTRIAL GOSSIP

HARDWARE AND METAL would be pleased to receive from any authoritative source industrial news of any sort, the formation or incorporation of companies, establishment or enlargement of mills, factories, foundries or other works, railway or mining news. All correspondence will be treated as confidential when desired.

AMERICAN RADIATOR CO., known as the Radiator Trust, has purchased the Cockshutt factory at Brantford, and will take immediate possession. Alterations of an extensive character will be made and a modern plant installed, the company intending to employ 200 hands and endeavor to capture the Canadian market. The company is an amalgamation of the former American Radiator Co., of Illinois, which controlled one-half of the radiator business of the United States; the Titusville Iron Co., Pa.; the St. Louis Radiator Co., St. Louis; the Standard Radiator Co., of Buffalo, and the M. Steele Co., of Springfield, Ohio, the capital being $10,000,000. Not content with controlling the United States trade, the company now seeks to hold its Canadian trade, which has suffered considerably under the dumping clause.

A new tanning factory is being erected at Simcoe.

A winding-up order has been issued to close up the affairs of the Canadian Tin Plate Co., Hamilton.

The Mason & Risch Piano Co., Toronto, are enlarging their factory and securing additional premises.

Many concerns are looking for sites at Port Arthur as a result of the decision to establish a blast furnace there.

The Hemphill Box Co. have secured premises at Brantford, and will start manufacturing paper boxes at once.

Grimsby has voted $15,000 to the Walker Steel Range Co., who have secured the Grout foundry in that town.

An American typewriter company may establish a factory in Brantford, though as yet no arrangements have been made.

Mr. Lamb, of Bridgewater, N.S., is to install a cyanide process in the Boston and Richardson mine, at Stormont, N.S.

Ker & Goodwin, who are building a new factory at Brantford, and will employ 20 men, are asking for a fixed assessment.

Geo. S. Deeks & Co. have secured the contract to build the section of the new Toronto-Sudbury C.P.R. line between Bolton and Parry Sound.

The Merchants' Rubber Co., Berlin, are erecting a large warehouse addition to their factory. Their staff is to be increased from 170 to 200.

An American company is arranging to take over the unused factory of the Niagara Metallic Co. for the manufacture of harness, axes, and other tools.

A company is being organized at Brantford to manufacture a patent composition roofing, the patent rights for which have been secured from a firm in Indiana.

The McKie Buggy Co., of Plattsville, have secured a site at Hamilton, and will erect a reinforced concrete building, costing $10,000. Fifty hands will be employed.

Fort Frances is opposing the proposition that electrical power be generated on the Canadian side and used to develop industries across the border. A strong deputation visited Ottawa last week.

The Canadian Meter Co., formerly of Windsor, have let the contract for an $11,000 factory, to be built in Hamilton. The building will be a three-storey brick, 40 x 100, and 50 men will be employed.

The Pender Nail Works, St. John, N.B., have completed plans for their new mills. Besides a new wire mill, 60 x 100 feet, the plans include a cleaning house, rod warehouse, boiler and engine rooms, and coal shed.

Windsor has defeated by-laws to grant exemptions from taxation and free water for ten years to the Standard Paint and Varnish Co., the Peninsular Tool Co., the Norris Kollar and Kuff Co., and to raise thirty thousand dollars by debentures to improve the city lighting plant.

The zinc plant built by the Kootenay Ore Co. at Kaslo last Winter is now in operation. The building, 80 by 75 feet, adjoins the same company's sampling plant, and is so situated on the steep banks of Kaslo Bay that the ore is received from the railroad cars at the top and is delivered to the steamers beneath, with the assistance of gravity to reduce the handling required during the process of treatment.

The cities and towns of the Canadian Northwest are growing rapidly, and the demand for water and gas pipe is increasing so much that the Canada Foundry Co. have decided to erect a new plant at Davenport, to take care of the increasing business. It can be put up in about ten weeks, and will cost about $75,000. The foundry is shipping a lot of steel to Welland for the new works of the Electrical Development Co.

Combines are said to have been formed in British Columbia to control the lead smelter and shingle mill industries. the Trail, Hall mines and Marysville smelters are understood to have got together to capture the lead trade in the orient from the Australian and British producers. Ninety per cent. of the shingle mill men have gotten together and organized companies to handle the local and export trades, also agreeing upon prices to be quoted.

The Standard Coal & Railway Co. are stated to have struck a large seam of coal on their property at Half-Way River, Cumberland County, at a depth of 2,350 feet, the thickness is from 8 to 10 feet, but as the company has been using a jump drill, it has not been possible to have a core. Mr. Fletcher calculated that the coal would be reached between 2,500 and 3,000 feet. The location of the bore hole is supposed to be the centre of the basin. This strike

of coal is one of the most important made in Nova Scotia for years.

The Ontario Wind Engine & Pump Co., Toronto, have just received a rush order for two Canadian air motor outfits from Paris, France, and in speaking of the previous shipments the agent states as follows: "Have just finished erection of 12' air motor sent me last Fall. This outfit is a remarkable one. It is on the bank of the Mediterranean Sea, Monte Carlo. It pumps water from a river and elevates 180 ft. to distance of 1,275 ft. The result is magnificent, and it is a complete success. The two present outfits go to Marseilles."

COMPANIES INCORPORATED.

Breitong Iron Co., of Michigan, has been granted power to develop mining property in Ontario with U. McFadden, of Sault Ste. Marie, as attorney.

Duplex Hanger Co., of Ohio, has been granted power to manufacture hardware and building material in Ontario, with J. H. McGregor, Toronto, as attorney.

Fort William Dredging and Harbor Improving Co., Fort William; share capital, $150,000; purpose, to improve harbors The directors are: E. R. Weyland, L. L. Peltier, and T. E. Dean, all of Fort William.

Guelph Windmill and Mfg. Co., Guelph; share capital, $50,000; purpose, to manufacture windmills and implements. The directors are: G. A. Black and F. X. Frank, of Guelph, and F. C. Cockerton, of Plattsville.

Canadian Fire Protecting Co., Toronto; share capital, $100,000; purpose to manufacture fire-proofing material, etc. The directors are: H. F. White, A. D. Crooks, G. W. Marsh and J. A. C. McCuaig, all of Toronto.

Selkirk Gas and Oil Co., Selkirk, Ont.; share capital, $10,000; purpose, to develop oil property. The directors are: R. J. Winyard, J. W. Holmes, W. H. Smelser, N. Overholt, D. Jepson and A. Aldrich, all of Selkirk.

Franco-American Automobile Co., Limited, Montreal; share capital, $20,000; purpose, to manufacture motor vehicles. The directors are: T. Craig, S. Page, H. B. Rainville, L. M. Patenaud and G. Husson, all of Montreal.

The Fidelity Oil and Gas Co. Limited, Leamington, Ont.; share capital, $100,000; purpose, to develop oil property. The directors are. J. W. Rosendale, J. W. McKay, J. Layden, T. H. Rochford, all of Buffalo, and A. S. Holmes, of Leamington, Ont., and W. J. Coffee, of Bradford, Pa.

General Specialty Co., Montreal; share capital, $20,000; purpose to manufacture patented articles. The directors are: J. M. Warmington, J. S. Smith, P. F. Richardson, H. J. Elliott, of Montreal, and J. M. Reid, Outremont, Que.

Explosives Co., of Canada, Montreal; share capital, $500,000; purpose, to manufacture powder and ammunition. The directors are E. B. Pritchard, E. H. Smith, E. N. Cote, W. J. Lewis, of Montreal, and J. M. Lynch, of Lachine, Que.

Calumet and Algoma Mining Co., Sault Ste. Marie, share capital, $1,000,000; purpose to develop mining properties in Ontario. The directors are: J. Hermann, J. Vertin, C. Schenk, H. E. Lean, L. Ceasar, H. Bibber and F. Roehm, all of Calumet, Mich.

Pedlar Talks

"KEEPING EVERLASTINGLY AT IT BRINGS SUCCESS."

No. 5. OSHAWA, ONT. MAY 20, 1905

THE TRIUMPH OF TRUTH

Truth the Mighty is prevailing in the Metal Lath business. From the moment that we placed **PERFECT METAL LATH** on the market, we told nothing but the truth about it—pure, wholesome, unstrained truth. Some people regarded with incredulity what we said **PERFECT METAL LATH** would do. Others laughed at the prices at which we averred we could sell it. Others, again, treated us to a little caustic in circulars, etc., re our statements in general. We said nothing however but, "**Make More PERFECT METAL LATH**" and it was made and sold.

AS INSTANCED

Metal Lath has not only proved to be infinitely superior to wooden lath, but **PERFECT METAL LATH** has proved itself to be **PERFECT.** Only last week we received a letter from a contractor who had doubled his order because **PERFECT METAL LATH** was so good. His letter closed with the words, "I have said good-bye to wooden laths. '**Perfects**' suit me perfectly." This is one encomium of many that often come our way.

BY OUR SUCCESS

PERFECT METAL LATH is so superior to wooden lath that it seems almost superfluous to mention the trend of its superiority. Aside from its fire proof qualities and our new method of manufacturing, which reduces the cost to a minimum, these are some of the points in favor of **PERFECT METAL LATH** compared with wooden lath. The key is positive. You use less mortar, and, as the size of the mesh is only three eighths of an inch by one half, the lath is imbedded in the mortar, rendering impossible the latter's cracking or falling off. **PERFECT METAL LATH** can be applied more quickly than wooden lath, as each sheet is only twenty and a quarter inches by ninety-six, which, when applied, covers one and one-half square yards, and to cover this space on sixteen inch centres only thirty-six staples need be driven. And, lastly, there is no sap in **PERFECT METAL LATH** to discolor your plaster.

If you are not a seller of **PERFECT METAL LATH** why not secure particulars **now?** Write us about it or about anything in the way of **Sheet Metal Building Materials.**

The Pedlar People

of OSHAWA, ONT.

MONTREAL—767 Craig St. OTTAWA—423 Sussex St. TORONTO—50 Yonge St.

WRITE YOUR NEAREST OFFICE.

THAT WE LEAD IN OUR LINE

IS A WELL-KNOWN FACT

BUY

WITH THIS BRAND

IT STANDS FOR

QUALITY

Sheathing and Black Diamond Tarred Felts,
Ready Roofing and Building Papers,
Fibre and Manilla Wrappings, etc.

Write for Quotations.

Alex McArthur & Co., Limited, 82 McGill Street, MONTREAL

CURRENT MARKET QUOTATIONS.

May 19, 1905.

These prices are for such qualities and quantities as are usually ordered by retail dealers on the usual terms of credit, the lowest figures being for larger quantities and prompt pay. Large cash buyers can frequently make purchases at better prices. The Editor is anxious to be informed at once of any apparent errors in this list, as the desire is to make it perfectly accurate.

METALS.

TIN.

Lamb and Flag and Straits—	
56 and 28-lb. ingots, 100 lb.	$32 00 $33 00

TINPLATES.

Charcoal Plates—Bright.

	Per box.
M.L.S., equal to Bradley—	
I C, usual sizes	$6 50
I X "	8 00
I X X "	9 50
Famous, equal to Bradley—	
I C	6 50
I X	8 00
I X X	9 50
Raven and Vulture Grades—	
I C, usual sizes	4 25
I X "	5 00
I X X "	5 75
I X X X "	6 50

"Dominion Crown Best"—Double Coated, Tissued.

	Per box.
I C	5 50
I X	6 50
I X X	7 50
I Allaway's Best"—Standard Quality.	
I C	4 50
I X	5 50
X	6 50

X Coke Plates—Bright.

Bessemer Steel—	
I.C., usual size, 14x20	3 50
I.C., special sizes, base	3 75
20x28	7 50

Charcoal Plates—Terne

Dean or J. G. Grade—	
I.C., 20x28, 112 sheets	7 50
IX., Terne Tin	10 50

Charcoal Tin Boiler Plates.

Cookley Grade—	
X X, 14x56, 50 sheet bxs.	7 00
" 14x60, "	
" 14x65, "	

Tinned Sheets.

72x30 up to 24 gauge	7 25	7 50
" " 26 "	7 75	8 00

IRON AND STEEL.

	Montreal.	Toronto.
Common bar, per 100 lb.	1 80	1 80
Forged iron "	2 05	2 05
Refined " "	2 20	2 05
Horseshoe iron "	2 02½	
Hoop steel, 1½ to 3 in. base		
Sleigh shoe steel "	1 97½	
Tire steel	2 07½	
T. Firth & Sons, tool steel—		
Speedicut		0 60
Annealed speedicut		0 65
Self-hardening		0 36
Best tool steel		0 12
Warranted		0 09
Best sheet steel		0 12
B. K. Morton & Co.—		
"Alpha" high speed		0 65
" annealed		0 70
"M" Self-hardening		0 50
"J" quality		0 18
"I" "		0 14
"BC" "		0 09
Jonas & Colver's tool steel	0 10	0 20
" "Novo"		0 65
" " annealed		0 70
Chas. Leonard	0 08	0 09
Crucible Steel Co.—		
" Rex high speed steel	0 65	0 75
" Self-hardening	0 45	0 50
Crucible Special		0 17
" Silver steel		0 13
" Black Diamond	0 10	0 11
Sanderson's Crucible steel	0 08	0 09
" Superior "	0 12	0 13

BABBIT METAL.

Syracuse Smelting Works:	
Aluminum, genuine	0 45
Government, "	0 44
Tough, "	0 40
Hard, "	0 40
Dynamo	0 30
Special	0 25
Maganese	0 18
Car Box	0 17
Extra	0 13
No. 1	0 10
No. 2	0 07
No. 3	0 05½

Large orders subject to discounts.

The Canada Metal Co.:	
Imperial, genuine	0 40
Metallic	0 30
Hercules	0 20
Star	0 15
No. 1	0 12
No. 2	0 10
No. 3	0 06
No. 4	0 05

BLACK SHEETS.

	Montreal.	Toronto
10 gauge	2 30	2 30
12 and 14 gauge	2 25	2 35
17 "	2 20	2 40
22 to 24 gauge	2 05	2 50
26 "	2 10	2 65
28	2 15	2 70

COPPER WIRE.

Discount, 50 per cent.

CANADA PLATES.

Ordinary	2 50
All bright	3 75
Galvanized Canada Plates—	
J. C. M. 3 Crowns	
16 x 21 x 60	3 33
18 x 24 x 52	3 33
18 x 24 x 60	3 56

	Ordinary.	Dom. Crown.
18x24x52	4 25	4 35
" 60	4 50	4 60
20x28x80	8 50	8 70
" 94	9 00	9 20

GALVANIZED SHEETS.

Fleur-de-Lis.	Gordon Crown.
16 to 20 gauge 3 40	
22 to 24 gauge 3 50	3 50
26 " 3 75	3 75
28 " 4 00	4 15

Comet Bell.	Queen's Head
16 to 20 gauge 3 40	
22 to 24 gauge 3 45	3 65
26 " 3 70	3 90
28 " 3 95	4 15

American brands, $3.90 for 10¾ oz.
Less than case lots 10 to 15c. extra.

CHAIN.

Proof coil, 3-16 in., per 100 lb.	7 00	10 00
" ¼ "		5 60
" 5-16 "		4 45
" ⅜ "		3 85
" 7-16 "		3 70
" ½ "		3 55
" 9-16 "		3 45
" ⅝ "		3 35
" ¾ "		3 25

Halter, kennel and post chains, 40 to 40 and 5 per cent.

Cow ties	40 p.c.
Tie out chains	65 p.c.
Stall fixtures	35 p.c.
Trace chain	45 p.c.
Jack chain, iron, single and double, discount 35 p.c.	
Jack chain, brass, single and double, discount 40 p.c.	

COPPER.

	Ingot.	Per 100 lb.
Casting, car lots	16 25	16 50

Bars.

Cut lengths, round, ½ to ⅞ in.	21 00 23 00
" round and square,	
Cut 1 to 2 inches	21 00 23 00

Sheet.

Plain, 16 oz., 14x48 and 14x60	21 00
Plain, 14 oz.	22 00
inned copper sheet	24 00
lanished	32 00

Braziers' (in sheets).

4x6 ft., 25 to 30 lb. each, per lb.	0 22
" 35 to 45 " "	0 21
" 50-lb. and above "	0 20

BOILER AND T.K. PITTS.

Plain tinned, Spun } 41½ per cent. off list.

BRASS.

Rod and Sheet, 14 to 30 gauge, 10 per cent.	
Sheets, hard-rolled, 2x4	0 23
Tubing, base, per lb.	0 23½

ZINC SPELTER.

Foreign, per 100 lb	7 00	
Domestic " "	6 75	7 00

ZINC SHEET.

5-cwt. casks	7 00
Part casks	7 25

LEAD.

Imported Pig, per 100 lb.	3 50 3 75
Bar, " "	4 80
Sheets, 2½ lb. sq. ft., by roll	0 06½
Sheets, 3 to 6 lb. "	0 06

NOTE.—Cut sheets ½c. per lb., extra. Pipe, by the roll, usual weights per yard, lists at 7c. per lb. and 35 p.c 'lis. f.o.b. Toronto.

NOTE.—Cut lengths, net price, waste pipe 8-f. lengths, lists at 8c.

ANTIMONY.

Cookson's.....per lb.	0 09½

SHOT.

Common, $6.50 per 100 lb.; chilled, $7.00 per 100 lb.; buck, seal and ball, $7.50. Discount, 15 p.c. Prices are f.o.b. Toronto, Hamilton, Montreal, St. John and Halifax. Terms, 2 p.c. for cash in thirty days.

PLUMBING GOODS.

BATH TUBS.

Zinc	6 00
Copper, discount 20 per cent. off revised list.	

BATHS.

Standard Ideal Enameled.

Plate E I, Fittings extra		1st quality	Special
4 and 4½ ft.	13 in. rolled rim	$18 00	16 00
5 feet	"	19 00	17 00
5½ "	"	20 50	18 50
6 "	"	23 25	21 25
Plate E II			
4½ feet	2½ in. "	16 75	14 75
5 "	2½ " "	17 50	15 50
5½ "	2½ " "	19 00	17 00
Plate 123 E, lavatories		1st quality	8 90
" 123 E,		2nd "	7 50
" 127 E,		1st "	5 70
" 127 E,		2nd "	4 80
" 128 E,		1st "	5 60
" 128 E,		2nd "	4 70
" 129 E,		1st "	5 40
" 129 E,		2nd "	4 50
Sinks 18 x 30 in flat rim, A quality			2 45
" " " " " B "			2 00

IRON PIPE.

Black pipe—	Per 100 feet.
⅛ inch	2 75
¼ "	2 04
⅜ "	2 06
½ "	2 30
¾ "	2 88
1 "	4 12
1¼ "	5 62
1½ "	6 75
2 "	9 00

Galvanized pipe—	
⅛ inch	2 86
¼ "	2 89
⅜ "	3 14
½ "	4 02
¾ "	5 77
1 "	7 88
1¼ "	9 45
1½ "	12 60
2 "	

Malleable Fittings—Canadian discount 35 per cent. American discount 20 to 25 per cent.

Cast Iron Fittings— Standard bushings 50 and 10 and 10 per cent.; headers, 60; flanged unions and lipped, 60 and 5; malleable bushings, 65; nipples, up to 6 in., 75.

PLUMBERS' BRASS GOODS.

Standard Compression work, dis. 60 p.c.
Cushion work, discount 50 per cent.
Fuller work, discount 65 per cent.
6 dozen lots and over of the above, extra discount 10 per cent.
Lever handle Stops and Waste, discount 55 per cent. With in lots of 2 dozen and over, an extra discount of 10 per cent.
J.M.T. Globe, Angle and Check Valves, discount 55 per cent.
Standard Globe, Angle and Check Valves, discount 65 per cent.
Kerr's special standard globes and angles, discount 55 per cent.
Kerr's Jenkin disc, copper-alloy disc and heavy standard valves, discount 55 per cent.
Kerr's standard brass checks, discount 55 p.c.
Kerr's standard brass disc steam radiator valves, discount 65 per cent.
Kerr's Jenkin disc, copper-alloy disc radiator valves, discount 65 per cent.
Kerr's quick-opening hot-water radiator valves, discount 65 per cent.
Weber's (Kerr) patent straightway gate valves, brass, discount 50 per cent.
Weber's (Kerr) patent straightway gate valves, I.B.B.M., discount 60 and 10 per cent.
J. M. T. Radiator Valves discount 55 per cent.
Standard Radiator Valves, discount 65 per cent.
Patent Quick-Opening Valves, discount 7 and 10 per cent.

No. 1 compression bath cock.....net	1 75
No. 4 " " "	1 90
No .7 Fuller's	2 20
No. 4½, " "	2 35

Patent Compression Cushion, basin cock, hot and cold, per doz., $31; 5 and 10 per cent. discount.

Patent Compression Cushion, bath cock, No. 2208	2 25
Square head brass cocks, discount 55 per cent	
" " iron " " 60 "	
Thompson Smoke-test Machine	$25.00

RANGE BOILERS.

Copper, 30 gallon	22 00
" 35 "	24 00
" 40 "	28 00

Discount off copper boilers 15 per cent.

GALVANIZED IRON RANGE BOILERS.

Capacity. Gals.	Standard.	Extra heavy
12	4.50	6.50
18	4.75	6.75
24	4.75	6.75
30	5.00	7.50
35	6.00	8.50
40	7.00	9.50
52	11.00	14.00
66	18.00	20.00
82	21.00	24.00
100	29.00	34.00
120	34.00	40.00
144	47.00	55.00

FERROSTEEL REGISTERS

WE MAKE ALL LINES

All Cast
Modified Steel
All Steel

Quality everlastingly the best
Prices everlastingly the bottom

OUR
ALL CAST Are time tried and worth proven.
MODIFIED STEEL The novelty success of 1904.
ALL STEEL Almost ready and a sure winner.

THE FERROSTEEL CO., 34 Michigan St., CLEVELAND, OHIO

SOIL PIPE AND FITTINGS.

Med. and Extra heavy pipe and fittings, dis. 60 per cent.
7 and 8-in. pipe, discount 40 and 5 per cent.

SOLDER.

	Per lb
Bar, half-and-half, guaranteed	0 17½
Wiping	0 15½
Refined	0 16¼

PAINTS AND OILS.

COLORS IN OIL.

1-lb. tins, pure.

Venetian red, per lb.	0 08
Chrome yellow	0 15
Golden ochre	0 08
French "	0 06
Marine black	0 04
Chrome green	0 10
French permanent green	0 13
Signwriters' black	0 15

WHITE LEAD.

	Per 100 lb.	
Pure	4 60	4 75
No. 1	4 35	4 50
No. 2		4 30
No. 3		3 37½
No. 4		3 35
Munro's Select Flake White		4 75
Elephant and Decorators' Pure		4 75
Tiger brand, pure		5 00
Decorators' Special for exterior use		4 25
Monarch		5 00
Decorator's Pure		4 75
Essex Genuine		4 25
Sterling Pure		5 00
Island City Pure		5 00
Ramsay's Pure Lead	4 75	5 00
Ramsay's Exterior	4 50	4 75

RED LEAD.

Genuine, 560 lb. casks, per cwt		$4 50
Genuine, 100 lb. kegs, "		4 75
No. 1, 560 lb. casks, per cwt	4 00	4 25
No. 1, 100 lb. kegs, per cwt		4 75

WHITE ZINC.

Extra Red Seal	0 06	0 08
French V. M.	0 06½	0 07
Lehigh	0 06	0 06½
Pure		0 07½
No. 1		0 06½
No. 2		0 05½

DRY WHITE LEAD.

Pure, casks	4 50
Pure, kegs	4 75
No. 1, casks	4 00
No. 1, kegs	4 25

PREPARED PAINTS.

In ¼, ½ and 1-gallon tins.

Pure, per gallon		1 20
Second qualities, per gallon		1 00
Barn (in bbls.)	0 60	0 90
The Sherwin-Williams paints		1 35
Canada Paint Co.'s pure		1 25
Toronto Lead & Color Co's pure		1 25
Sanderson Pearcy's pure		1 20
Standard Co.'s "New Era."		1 30
Francis-Frost Co.'s "Ark" B'd		1 25
" British Navy deck		1 50
Henderson & Potts's "Anchor"		1 35
Ramsay's paints, Pure, per gal.		1 20
" Thistle, "		1 00
" Outside, bbls	0 55	0 65
Island City House Paint		1 25
" Floor "		1 25
Sterling House Paint		1 20
" Floor "		1 10
National		1 05

PARIS GREEN.

Petroleum, barrels, per lb.	0 13½
Arsenic, kegs	0 13½
50 and 100-lb. drums	0 14
25-lb. drums	0 14½
1-lb. paper boxes	0 15
½-lb. paper boxes	0 17

Terms—2 per cent. off 30 days, or 90 days

PUTTY.

Bulk in bbls.	1 50
Bulk in less quantity	1 80
Bladders in bbls.	1 65 1 75
Bladders in kegs, boxes or loose	1 90
25-lb. tins	1 80
12½ lb. tins	2 05
Bladders in bulk or tins less than 100 lb.	1 85

VARNISHES.

	In 5-gal. lots.	Per gal.	Net.
Carriage, No. 1		1 50	1 60
Pale durable body		4 10	4 25
" rubbing		2 85	3 20
Gold size, japan		1 50	1 60
No. 1 brown japan		0 85	0 90
Elastic oak			1 50
Furniture, extra		1 10	1 25
" No. 1		0 90	1 00
Hard oil finish		1 35	1 50
Light oil finish		1 60	1 70
Damar		1 75	2 00
Shellac, white		2 40	2 50
" orange		2 30	2 40
Turpentine, brown japan		1 10	1 20
" black japan		1 10	1 20
" " No. 1		0 85	0 90
Elastilite varnish, 1 gal. can, each			2 00
Granitine floor finish, per gal			2 75

Maple Leaf coach enamels; size 1, $1.20; size 2, 70c.; size 3, 40c. each.
Sherwin-Williams' kopal varnish, assorted case, from to 1 gal., $2.50.

GLUE.

Common	0 08	0 08½
French medal	0 10	0 14
White, extra	0 18	0 22
Gelatine		
Strip	0 18	0 20
Coopers	0 19	0 20
Huttner		
Ground	0 12	0 16
Cologne, genuine		

HARDWARE.

AMMUNITION.

Cartridges.

B. B. Caps Dominion, 50 and 5 and 25 per cent. American $2.00 per 1000.
C. B. Caps American, $2.60 per 1000.
Rim Fire Pistol, discount 30 p.c., American.
Rim Fire Cartridges, Dominion, 50 and 5 p.c.
Central Fire, Military and Sporting, American, add 20 per cent. to list. B.B. Caps, discount 40 per cent., American.
Central Fire Pistol and Rifle, list net Amer.
Central Fire Cartridges, pistol sizes, Dominion, 30 per cent.
Central Fire Cartridges, Sporting and Military, Dominion, 15 per cent. American 10 per cent. advance on list.
Loaded and empty Shells, "Trap" and "Dominion" grades, 25 per cent. discount. American 20 per cent. discount. Rival and Nitro, 10 per cent. advance on list.
Brass Shot Shells, 55 per cent.
Primers, Dom., 30 per cent.; American, $1.75

Wads.	per lb.
Best thick brown or grey felt wads, in ½-lb. bags	$0 70
Best thick white card wads, in boxes of 500 each, 12 and smaller gauges	0 29
Best thick white card wads, in boxes of 500 each, 10 gauge	0 35
Thin card wads, in boxes of 1,000 each, 12 and smaller gauges	0 20
Thin card wads, in boxes of 1,000 each, 10 gauge	0 25

Chemically prepared black edge grey cloth wads, in boxes of 250 each—	Per M.
11 and smaller gauge	0 60
9 and 10 gauges	0 70
7 and 8 "	0 90
5 and 6 "	1 10

Superior chemically prepared pink edge, best white cloth wads, in boxes of 250 each—	
11 and smaller gauge	1 15
9 and 10 gauges	1 40
7 and 8 "	1 65
5 and 6 "	1 90

ADZES.

Discount 22½ per cent.

ANVILS.

Wright's, 80-lb. and over	0 10½
Hay Budden, 80-lb. and over	0 09½
Brook's, 80-lb. and over	0 11½

APPLE PARERS.

Woodyatt Hudson, per doz., net 4 50

AUGERS.

Gilmour's, discount 60 per cent. off list.

AXES.

Chopping Axes		
Single bit, per doz.	7 00	10 00
Double bit, "	10 00	18 00

Bench Axes, 40 per cent.
Broad Axes, 25 per cent.

Hunters' Axes	5 50	6 00
Boys' Axes	6 25	7 00
Splitting Axes	7 00	12 00
Handled Axes		10 00

AMERICAN AXE AND TOOL CO.

Red Ridge, boys', handled		5 75
" hunters		5 25

Underhill American Bench Axes, 40 p.c.

AXLE GREASE.

Ordinary, per gross	6 00	7 00
Best quality	10 00	12 00

BELLS.

Hand.

Brass, 60 per cent.
Nickel, 55 per cent.

Cow.

American make, discount 63⅔ per cent.
Canadian, discount 45 and 50 per cent.

Door.

Gongs, Sargant's	5 50 8 00
" Peterboro', discount 50 and 10 per cent. off new list.	

Farm.

American, each	1 35	3 00

House.

American, per lb.	0 35	0 40

BELTING.

Extra, 60 per cent.
Standard, 60 and 10 per cent.
No. 1, not wider than 6 in., 60, 10 and 10 per cent.
Agricultural, not wider than 4 in., 75 per cent.

BITS.

Auger.

Gilmour's, discount 60 per cent.
Rockford, discount 50 and 10 per cent.
Jennings' Gen., net list.

Car.

Gilmour's, 47½ per cent.

Expansive.

Clark's, 40 per cent.

Gimlet.

Clark's, per doz	0 65	0 90
Diamond, Shell, per doz.	1 00	1 50
Nail and Spike, per gross	2 25	5 20

BLIND AND BED STAPLES.

All sizes, per lb.	0 07½	0 12

BOLTS AND NUTS

Carriage Bolts, common ($1 list	Per cent.
" " ⅜ and smaller	60 and 10
" " 7-16 and up	55 and 5
" " full sq. ($2.40 list)	60
" " Norway Iron ($3 list)	40
Machine Bolts, all sizes, ⅜ and less	55
Machine Bolts, 7-16 and up	55 and 5
Plough Bolts	55 and 5
Blank Bolts	55 and 5
Bolt Ends	55 and 5
Sleigh Shoe Bolts	70
Coach Screws, cone point	70 and 5

Nuts, square, all sizes, 4c. per lb. off.
Nuts, hexagon, all sizes, 4½c. per lb. off.
Stove Rods per lb., 5½ to 6c.

BOOT CALKS.

Small and medium, ball per M.	4 25
Small heel "	4 50

BRIGHT WIRE GOODS

Discount 62½ per cent.

BUTCHERS' CLEAVERS.

German per doz.	6 00	9 00
American "	12 00	18 00

BUILDING PAPER, ETC

Tarred Felt, per 100 lb.		1 85
Ready roofing, 2-ply, not under 45 lb. per roll		0 90
Ready roofing, 3-ply, not under 65 lb., per roll		1 15
Carpet Felt per ton		45 00
Heavy Straw Sheathing per ton		35 00
Dry Sheathing per roll, 400 sq. ft.		0 40
Tar " " 400 "		0 50
Dry Fibre " 400 "		0 40
Tarred Fibre " 400 "		0 50
O. K. & I. X. L. " 400 "		0 70
Resin-sized " 400 "		0 45
Oiled Sheathing " 600 "		1 00
Oiled " " 400 "		0 70
Root Coating, in barrels per gal.		0 17
Roof " small packages		0 25
Refined Tar per barrel		5 00
Coal Tar "		4 00
Coal Tar, less than barrels per gal.		0 15
Roofing Pitch per 100 lb.		0 90
Slater's felt per roll		0 60

BULL RINGS.

Copper, $1.30 for 2½-inch, and $1.70

BUTTS.

Wrought Brass, net revised list.

Cast Iron.

Loose Pin, discount 60 per cent

Wrought Steel.

Fast Joint, discount 70 to 70 and 5 per cent.
Loose Pin, discount 70 to 70 and 5 per cent.

CARPET STRETCHERS.

American per doz.	1 00	1 50
Bullard's "		6 50

CASTORS.

Bed, new list, discount 55 to 57½ per cent.
Plate, discount 52½ to 57½ per cent.

CATTLE LEADERS.

Nos. 32 and 33 per gross	7 50 8 50

CHALK.

Carpenters' Colored, per gross	0 45	0 75
White lump per cwt.	0 60	0 65
Red	0 05	0 06
Crayon per gross	0 14	0 18

CHISELS.

Socket, Framing and Firmer.

Broad's, discount 70 per cent.
Warnock's, discount 70 per cent.
P. S. & W. Extra, discount 60 and 10 per cent.

CLOTHES REELS.

Davis Clothes Reels, dis. 40 per cent

PLANE IRONS.

English per doz.	2 00	5 00

PLIERS AND NIPPERS.

Button's genuine, per doz. pairs, discount 37½ to 40 per cent.

Button's imitation per doz.	5 00	9 00
man "	0 60	0 60

PRESSED SPIKES.

Discount 20 per cent.

PULLEYS.

Hothouse per doz.	0 55	1 00
Axle "	0 22	0 33
Screw "	0 22	1 00
Awning "	0 35	2 50

PUMPS.

Canadian cistern	1 80	3 60
Can adian pitcher spout	1 40	2 10

Paterson's Wire Edged Ready Roofing

Fire-proof and Sanitary :
Easy to put on :
Hard to wear out :
Don't cost much.

You have hundreds of Customers who require that kind of Roofing Material.

The Paterson Mfg. Co., Limited

Toronto and Montreal.

CONDUCTOR PIPE.

Plain or Corrugated.

2-inch	per 100 feet	3 00
3 "	" "	4 00
4 "	" "	5 25
5 "	" "	6 75
6 "	" "	9 00

CRADLES, GRAIN.

Canadian, discount 20 to 25 per cent.

CROSSCUT SAW HANDLES.

S. & D., No. 3	per pair	0 15
S. & D., " 5	"	0 22½
S. & D., " 6	"	0 15
Boynton pattern	"	0 20

DOOR SPRINGS.

Torrey's Rod	per doz.	....	1 75
Coil, 9 to 11 in	"	0 95	1 65
English	"	2 00	4 00

DRAW KNIVES.

Coach and Wagon, discount 70 per cent. new list.
Carpenters' discount 70 per cent.

DRILLS.

Hand and Breast.

Millar's Falls, per doz., net list.

DRILL BITS.

Morse, discount 37½ to 40 per cent.
Standard, discount 50 and 5 to 55 per cent.

FAUCETS.

Common, cork-lined, discount 35 per cent.

EAVETROUGHS.

10-inch	per 100 ft. 10 00

ELBOWS (stovepipe.)

5 and 6-inch, common	per doz.	1 20
7-inch	"	1 35

Polished, 15c. per dozen extra.

ESCUTCHEONS.

Discount 50 and 10 per cent., new list

ESCUTCHEON PINS.

Iron, discount 40 per cent.

FACTORY MILK CANS.

Discount off revised list, 40 per cent.

FILES AND RASPS.

Great Western	70 and 10	per cent.
Arcade	70 " 10	"
Kearney & Foot	70 " 10	"
Disston's	70 " 10	"
American	70 " 10	"
J. Barton Smith	70 " 10	"
McClellan	70 " 10	"
Eagle	70 " 10	"
Nicholson, 60 and 10 to 60, 10 and 5		"
Royal	80	"
Globe	70 to 75	"

Black Diamond, 60 and 10 to 60, 10 and 5 per cent.
Jowitt's, English list, 25 to 27½ per cent.
Nicholson File Co.'s "Simplicity" file handle, per gross 85c. to $1.50

GLASS.

Window. Box Price.

Size United Inches.	Star Per 50 ft.	Star Per 100 ft.	D. Diamond Per 50 ft.	D. Diamond Per 100 ft.
Under 26	....	3 80	....	5 06
26 to 40	....	4 00	....	5 44
41 to 50	....	4 50	....	6 56
51 to 60	....	4 75	....	7 50
61 to 70	....	5 00	....	8 62
71 to 80	....	5 30	....	9 38
81 to 85	....	....	....	10 75
86 to 90	....	....	....	12 30
91 to 95	....	....	....	15 00
96 to 100	....	....	....	18 00
96 to 100	....	....	....	18 00

GAUGES.

Marking, Mortise, Etc.

Stanley's discount 50 to 55 per cent.

Wire Gauges.

Winn's, Nos. 26 to 33	each	1 65 2 40

GILLETT'S POWDERED LYE.

1-case, $3.70; 3-case, $3.60; 5-case and over, $3.50.

HALTERS.

Rope, ¾-inch	per gross	9 00
Rope, ⅞ "	"	12 00
Rope, ⅞ to 1-inch	"	14 00
Leather, 1-inch	per doz.	4 00
Leather, 1¼ "	"	5 20
Web	"	2 45

HAMMERS.

Nail.

Maydole's, discount 5 to 10 per cent. Canadian discount 25 to 27½ per cent.

Tack.

Magnetic	per doz.	1 10 1 20

Sledge.

Canadian	per lb.	0 07 0 08½

Ball Pean.

English and Canadian, per lb.		22 0 25

HANDLES.

Axe, 2nd growth, per doz. net		3 00 4 00
Store door	per doz.	1 00 1 50

Fork.

C. & B., discount 40 per cent., revised list.

Hoe.

C. & B., discount 40 per cent., revised list.

Saw.

American	per doz	1 00 1 25

Plane.

American	per gross	3 15 3 75

Hammer and Hatchet.

Canadian, discount 40 per cent.

HANGERS.

	doz.	pairs.
Steel barn door	8 00	10 00
Stearns, 4-inch	....	4 50
" 5-inch	....	6 00
Zenith	....	9 00
Lane's covered—		
No. 11, 5-foot run	....	8 40
No. 11½, 10-foot run	....	10 80
No. 12, 10-foot run	....	12 60
No. 14, 15-foot run	....	21 00
Steel, covered	4 00	11 00
" track, 1 x 3-16 in(100 ft)	....	3 75
" " 1¼ x 3-16 in(100 ft)	....	4 75

HARVEST TOOLS.

Discount 60 per cent.
S. & D. lawn rakes, Dunn's, 40 off.
" sidewalk and stable scrapers, 40 off.
" Maple Leaf and Premiums saw sets, 40 off.
" saw swages, 40 off.

HATCHETS.

Canadian, discount 40 to 42½ per cent.

Shingle, Red Ridge 1, per doz		4 40
" 2, "		4 85
Barrel, Underhill		5 00

HAT ENAMEL.

Henderson & Potts' "Anchor Brand"

HINGES.

Blind, Parker's, discount 60 per cent.

Heavy T and strap, 4-in., per lb		0 06½
" 5-in., "		0 06½
" " 6-in., "		0 06
" " 8-in., "		0 05½
" " 10-in., "		0 05½

Light T and strap, discount 65 and 5 per cent.
Screw hook and hinge—

6 to 10 in	per 100 lb.	4 50
12 in. up	"	3 25
Spring, No. 20, per gro. pairs		10 80

Spring, Woodyatt pattern, per gro., No. 5, $17.50; No. 10, $18; No. 20, $10.80; No. 120, $20; No. 51, $10; No. 50, $27.50.

HOES.

Garden, Mortar, etc., discount 60 per cent.

Planter	per doz.	4 00 4 50

HOLLOW WARE

Tinned cast, 35 per cent.

HOOKS.

Cast Iron.

Bird cage	per doz.	0 50	1 10
Clothes line, No. 61	"	0 00	0 70
Harness	"	0 60	12 00
Hat and coat	per gro.	1 10	10 00
Chandelier	per doz.	0 50	1 00

Wrought Iron.

Wrought hooks and staples Canadian discount 60 per cent.

Wire.

Hat and coat, discount 60 per cent.

Belt	per 1,000	0 60

Screw, bright, discount 62½ per cent.

HORSE NAILS.

"P.B." Brand, 55 to 60 per cent.
"C" brand, 40, 10 and 7½ per cent. off list { Oval head
M.R.M. Co. brand, 55 per cent.
"Monarch," 50 and 7½ per cent.
"Peerless" 50 per cent. dis.

HORSESHOES.

F.O.B. Montreal

"P.B." brand, new pattern, base	$3 50
M.R.M.'Co. brand, base	3 65

Add 15c. Toronto, Hamilton, Guelph.

JAPANNED WARE.

50 per cent.

PICKS.

Star	per doz.	3 00 3 25

KETTLES.

Brass spun 7½ per cent. discount off new list.

Copper	per lb.	0 30 0 50

American, 60 and 10 to 65 and 5 per cent.

KEYS.

Lock, Canadian dis. 40 to 40 and 10 per cent.
Cabinet trunk and padlock

American	per gross	0 60

KNOBS.

Door, japanned and N.P., per doz		1 50 2 50
Bronze, Berlin	per doz.	2 75 3 25
Bronze, Genuine	"	6 00 9 00
Shutter, porcelain, F. & L. screw	per gross	1 30 2 00
White door knobs	per doz.	.... 2 00

HAY KNIVES.

Net prices.

LAMP WICKS.

Discount, 60 per cent.

LADDERS, EXTENSION.

Waggoner Extension Ladders, dis. 40 per cent.

LANTERNS.

Cold Blast	per doz.	4 50
No. 3, "Wright's"	"	8 50
Ordinary, with O burner	"	4 00
Dashboard, cold blast	"	9 00
No. 0	"	5 75

Japanning, 50c. per doz. extra.

LEMON SQUEEZERS.

Porcelain lined	per doz.	2 20	5 60
Galvanized	"	1 87	3 85
King, wood	"	2 75	2 90
King, glass	"	4 00	4 50
All glass	"	0 50	0 90

LAWN MOWERS FOR 1905.

Woodyatt, 10½-in., 14-in. cut		$ 8 50 to	$11 00
Star, 9 -in.	"	6 00 to	6 50
Daisy, 8 -in.	"	5 25 to	5 75
Philadelphia, 7½-in.	"	6 00 to	7 50
Woodyatt, 10½-in., ball bearing		13 25 to	18 00
Grass Boxes		1 75 to	2 00
King Edw'd 12-in., 14-in. cut		9 00 to	10 00

Horse Lawn Mowers, "Special."

Discount, 50 per cent., with freight concessions in quantity shipments.

Maxwell & Sons

10½-in. high wheel	0	10 00
9-in	5 50	6 25
8-in	4 90	5 50

Discount 50 per cent.

LOCKS.

Canadian, 50 to 50 and 10 per cent.

Russell & Erwin, steel rim	per doz.	2 25

Cabinet.

Eagle, discount 30 per cent.

Padlocks.

English and Am.	per doz.	0 50 6 00

Eagle, discount 20 to 25 per cent.

MACHINE SCREWS.

Iron and Brass.

Flat head, discount 25 per cent.
Round head, discount 20 per cent.

MALLETS.

Tinsmiths'	per doz.	1 25	1 50
Carpenters', hickory,	"	1 25	3 75
Lignum Vitae	"	3 85	5 00
Caulking, each		0 60	2 00

MATTOCKS.

Canadian	per doz.	5 50 6 00

MEAT CUTTERS.

American, discoun 3¼ per cent.
German, 15 per cen
Gem .....each 1 15

MILK CAN TRIMMINGS.

Discount 25 per cent.

NAILS.

	Cut.	Wire
2d	3 40	3 25
3d	3 05	2 90
4 and 5d	2 80	2 65
6 and 7d	2 70	2 55
8 and 9d	2 55	2 40
10 and 12d	2 50	2 35
16 and 20d	2 45	2 30
30, 40, 50 and 60d (base)	2 40	2 25

F.o.b. Toronto.
Steel cut nails 10c. extra.
Miscellaneous wire nails, discount 75 per cent.
Coopers' nails, discount 30 per cent.

NAIL PULLERS.

German and American	85	2 50
No. 1	85	
No 1573	75	

NAIL SETS.

Square, round and octagon, per gross	3 38
Diamond	1 00

POULTRY NETTING.

2-in. Mesh, 19 w.g., dis. 60 per cent.
2-in. Mesh 16 w.g. 60 per cent.
Smaller than 2 in. dis. 55 per cent.

OAKUM.

U. S. Navy	per 100 lb.	6 75
Plumbers	"	3 00

OILERS.

McClary's Model galvanized oil can, with pump, 5 gallon, per dozen 10 00
Davidson oilers, discount 40 per cent.
Zinc and tin, discount 50, 50 and 10 per cent.

Copper	per doz.	1 25	3 50
Brass	"	1 50	3 50

Malleable, discount 25 per cent

GALVANIZED PAILS.

Dufferin pattern pails, discount 47½ per cent
Flaring pattern, discount 47½ per cent.
Galvanized washtubs, discount 47½ per cent.

PIECED WARE.

Discount 40 per cent off list, June, 1899.
10-qt. flaring sap buckets, discount 40 per cent
6, 10 and 14-qt. flaring pails dis. 40 per cent.
Creamer cans, discount 40 per cent.

PICKS.

Per dozen	6 00	9 00

PICTURE NAILS.

Porcelain head	per gross	1 35 1 50
Brass head	"	0 40 1 00

PICTURE WIRE.

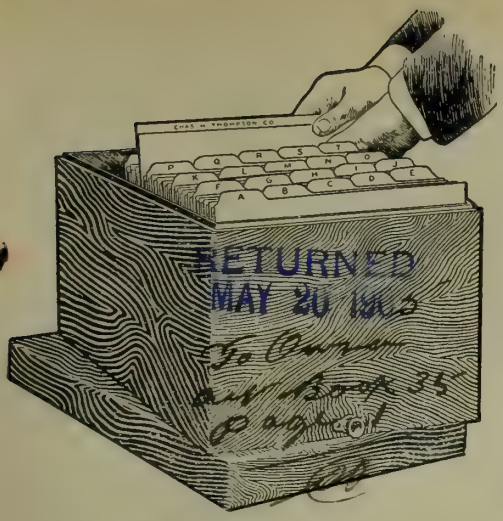
Tin and gilt, discount 75 per cent.

PINE TAR.

½ pint in tins	per gross	7 80
1 " "	"	9 60

PLANES.

Wood bench, Canadian discount 40 per cent.
American discount 50 per cent.
Wood, fancy Canadian or American 37½ to 40 per cent



VERTICAL FILING BARGAIN



The Vertical Tray here shown gives a capacity of 3000 Letters; size of Tray, 13 in. x 20 in.—no steps to take—no waste time looking in two or three different places. Here's the offer:

Vertical Tray Complete Price, $8.55

1 Handsome ¼ Cut Oak Tray
200 Manilla Folders
1 Set Alphabetical Guides, A-Z
1 " Daily " 1-31
1 " Monthly " Jan. to Dec.

$8.55

Shipped prepaid to all points in Ontario except north of Georgian Bay and Sault Ste. Marie and west. ***Order one now.***

FULL LINE OF BUSINESS FURNITURE IN STOCK

THE OFFICE SPECIALTY MFG. CO., Limited

Factories, NEWMARKET. 97-105 Wellington St. West, (near York), TORONTO

PUNCHES.

Saddler's .....per doz.	1 00	1 85
Conductor's..... "	3 00	15 00
Tinners', solid.....per set	....	0 72
" hollow.....per inch	....	1 00

RAKES.

Wood..... per doz. net 1 20 up.

RAZORS.

	per doz.	
Elliot's	4 00	18 00
Geo. Butler's & Co.'s.....	4 00	18 00
Boker's	7 50	11
" King Cutter	13 50	18 50
Wade & Butcher's.....	3 60	10 00
Carbo Magnetic.....	....	15 00
Griffon Barber's Favorite	....	10 75
Griffon No. 65.....	....	13 00
Griffon Safety Razors.....	....	13 50
Griffon Stropping Machines..	....	13 50
Lewis Bros.' "Klean Kutter"	8 50	10 50
Hindoo	10 50	14 00
Orgsteom's Swedish.....	3 50	10 00
Henckel's	7 50	20 00

Clauss, 50 and 10 per cent.
Clauss Strops, 50 and 10 per cent.

REGISTERS.

Discount 40 per cent.

RIVETS AND BURRS.

New List.

Iron Rivets, black and tinned, 60 and 10 and 10 per cent.
Iron Burrs, discount 60 and 10 and 10 p.c.
Copper Rivets, with usual proportion burrs, 45 per cent.
Copper Burrs only, discount 30 and 10 per cent.
Extras on Tinned or Coppered Rivets, ½-lb. packages 1c. per lb.; ¼-lb. packages 2c. lb.

RIVET SETS.

Canadian, discount 35 to 37½ per cent.

ROPE, ETC.

Sisal.....	0 11	
Pure Manilla	0 14½	
"British" Manilla.....	0 11	
Cotton, 3-16 inch and larger 0 21	0 23	
" 5-32 inch 0 25	0 27	
" ⅛ inch 0 25	0 28	
Russia Deep Sea	0 16	
Jute.....	0 09	
Lath Yarn, single	0 10	
" double	0 10½	
Sisal bed cord, 48 feet.....per doz.	0 65	
" " 60 feet.....	0 80	
" " 72 feet..... "	0 95	

RULES.

Boxwood, discount 70 per cent.
Ivory, discount 20 to 25 per cent.

SAD IRONS.

Mrs. Potts, No. 55, polished....per set	0 75
" No. 50, nickle-plated, "	0 80
Common, plain.....	4 50
" plated	5 50

SAND AND EMERY PAPER.

B. & A. sand, discount, 40 and 5 per cent
Emery, discount 40 per cent.
Garnet (Rurton's). 5 to 10 per cent. advance on list.

SAP SPOUTS.

Bronzed iron with hooks ....per 1,000 7 50
"Eureka" tinned steel, hooks " 8 00

SAWS.

Hand, Disston's, discount 12½ per cent
S. & D., discount 40 per cent.
Crosscut, Disston's....per foot 035 0 55
S. & D., discount 35 per cent. on Nos. 2 and 3.

Hack, complete.....each	0 75	2 75
" frame only.....each	0 50	1 25

S. & D. solid tooth circular shingle, concave and band, discount 50 per cent.
" mill and ice, drag, discount 30 per cent
" cross-cut, discount 35 per cent.
" hand saws, butcher, disc't 40 per cent
" compass, pruning and back, discount 45 per cent.
" buck, New Century.....$8 25
" " No. 1 Maple Leaf..... 5 25
" " Happy Medium..... 4 25
" " Watch Spring..... 4 25
" " common frame..... 4 00

SASH WEIGHTS.

Sectional.....per 100 lb.	2 00	2 25
Solid ..... "	1 50	1 75

SASH CORD.

Per lb.....	0 28	0 30

SAW SETS.

	per doz.
Lincoln and Whiting	4 75
Hand Sets, Perfect	4 00
X-Cut Sets, "	7 50

SCALES.

Gurney Standard, 40 per cent.
Gurney Champion, 50 per cent.
Burrow, Stewart & Milne—
Imperial Standard, discount 40 per cent.
Weigh Beams, discount 35 per cent.
Champion Scales, discount 50 per cent.
Fairbanks standard, discount 35 per cent.
" Dominion, discount 55 per cent.
" Richelieu, discount 55 per cent.
Warren's new Standard, discount 40 per cent.
" " Champion, discount 50 per cent.
" Weighbeams, discount 35 per cent.

SCREW DRIVERS.

Sargent's .....per doz. 0 65 1 00

SCREEN DOORS.

Common doors, 2 or 3 panel, walnut stained, 4-in. style.....per doz. 6 50
Common doors, 2 or 3 panel, yellow and green stained, 4-in. style....per doz. 6 75
Common doors, 2 or 3 panel, in natural colors, oil finish .....per doz. 8 75
3-in. style 20c. per dozen less.

SCREWS.

Wood, F. H., bright and steel, discount 87½ per cent.
Wood, R. H., bright, dis. 82½ per cent.
" F. H., brass, dis. 80 per cent.
" R. H., " dis. 75 per cent.
" F. H., bronze, dis. 75 per cent.
" R. H., " dis. 70 per cent.
Drive Screws, dis. 87½ per cent.

Bench, wood .....per doz.	3 25	4 00
" iron ..... "	4 25	5 00

Set, case hardened, dis. 60 per cent.
Square Cap, dis. 50 and 5 per cent.
Hexagon Cap, dis. 45 per cent.

SCYTHES.

Per doz. net.....	6 00	9 00

SCYTHE SNATHS.

Canadian, discount 40 per cent.

SHEARS.

Clauss, nickel, discount 80 per cent.
Clauss, Japan, discount 67½ per cent.
Clauss, tailors, discount 40 per cent.
Seymour's, discount 50 and 10 per cent.

SHOVELS AND SPADES.

Canadian, discount 45 per cent.

SINKS.

Cast iron, 16 x 24.....		0 85
" 18 x 30.....		1 00
" 18 x 36.....		1 40

SNAPS.

Harness, German, discount 25 per cent.

Lock, Andrews'	4 50	11 50

SOLDERING IRONS.

1, 1½-lb..... per lb.	....	0 37
2-lb. or over ..... "	....	0 34

SQUARES.

Iron, No. 492 .....per doz.	1 90	2 25
" No. 493 ..... "	2 40	2 55
" No. 494 ..... "	3 25	3 40

Steel, discount 60 and 5 to 65 per cent.
Try and Bevel, discount 50 to 52½ per cent.

STAMPED WARE.

Plain, discount 75 and 12½ per cent. off revised list.
Retinned, discount 75 per cent. off revised list

STAPLES.

Galvanized	....	3 00
Plain	....	2 80

Coopers', discount 45 per cent.
Poultry netting staples, discount 40 per cent.

STOCKS AND DIES.

American discount 25 per cent.

STONE.

Washita .....per lb.	0 28	0 60
Hindostan ..... "	0 06	0 07
" slip ..... "	0 09	0 09
Labrador..... "	....	0 13
" Axe..... "	....	0 15
Turkey ..... "	....	0 50
Arkansas..... "	....	1 50
Water-of-Ayr ..... "	....	0 10
Scythe .....per gross	3 50	5 00
Grind, 40 to 200 lb., per ton....	....	25 00
" under 40 lb., "	...	28 00
" 200 lb. and over	....	31 00

STOVEPIPES.

5 and 6 inch, per 100 lengths	....	7 00
7 inch..... " "	....	7 50

TACKS, BRADS, ETC.

Carpet tacks, blued	80 and 15
" " tinned.....	80 and 20
" " (in kegs).....	40
Cut tacks, blued, in dozens only	80
" ¼ weights	60
Swedes cut tacks, blued and tinned—	
In bulk.....	80 and 10
In dozens	75
Swedes, upholsterers', bulk....85,	12½ and 12½
" brush, blued and tinned bulk	70
Swedes, gimp, blued, tinned and japanned.....	75 and 12½
Zinc tacks	35
Leather carpet tacks.....	55
Copper tacks.....	50
Copper nails	52½
Trunk nails, black	65 and 5
Trunk nails, tinned.....	65 and 10
Clout nails, blued	65 and 5
Chair nails.....	35
Patent brads.....	40
Fine finishing.....	40
Lining tacks, in papers.....	10
" " in bulk.....	15
" " solid heads, in bulk	75
Saddle nails, in papers.....	10
" " in bulk.....	15
Tufting buttons, 22 line, in dozens only	60
Zinc glaziers' points	5
Double pointed tacks, papers..	90 and 10
" " bulk....	40
Clinch and duck rivets.....	45

TAPE LINES.

English, ass skin.....per doz.	2 75	5 00
English, Patent Leather.....	5 50	9 75
Chesterman's.....each	0 90	2 85
" steel.....each	0 80	8 00

TINNERS' SNIPS.

Per doz.....	3 00	15 00

Clauss, discount 35 per cent.

THERMOMETERS.

Tin case and dairy, 75 to 75 and 10 per cent.

TRAPS (steel.)

Game, Newhouse, discount 25 per cent.
Game, H. & N., P. S. & W., 45 and 5 per cent.
Game, steel, 60 and 5 per cent.

TROWELS.

Disston's, discount 10 per cent.

German.....per doz.	4 75	6 00

S. & D., discount 35 per cent.

TWINES.

Bag, Russian .....per lb.	....	0 27
Wrapping, cotton, 3-ply	....	0 24
" 4-ply	....	0 27
Mattress .....per lb.	0 33	0 45
Staging..... "	0 27	0 35

VISES.

Wright's.....	....	0 13½
Brook's.....	....	0 12½
Pipe Vise, Hinge, No. 1.....	....	3 50
" " " No. 2.....	....	5 50
Saw Vise.....	4 50	9 00

Columbia Hardware Co.
Blacksmiths' (discount) 60 per cent.
" parallel (discount) 45 per cent

ENAMELLED WARE.

White, Princess, Turquoise, Blue and White discount 50 per cent.....
Diamond, Famous, Premier, discount 50 and 10 per cent.....
Granite or Pearl, Imperial, Crescent, discount 50, 10 and 10 per cent.
Premier steel ware, 40 per cent.
"Star" decorated steel and decorated whit 25 per cent.

WIRE.

Smooth Steel Wire.

No. 0-9 gauge.....		$2 15
10 "	6c.	extra.
11 "	12c.	"
12 "	20c.	"
13 "	30c.	"
14 "	40c	"
15 "	55c.	"
16 "	70c.	"

Add 60c. for coppering and $2 for tinning.
Extra net per 100 lb.—Oiled wire 10c. spring wire $1.25, special hay baling wire 30c. best steel wire 75c., bright soft drawn 15c., charcoal (extra quality) $1.25, packed in casks or cases 15c., bagging and papering 10c., 50 and 100-lb. bundles 10c., in 25-lb. bundles 15c., in 5 and 10-lb. bundles 25c., in 1-lb. hanks, 50c., in ½-lb. hanks 75c., in ¼-lb. hanks $1.
Fine Steel Wire, discount 27½ per cent. List of extras: In 100-lb. lots: No. 17, $5—No. 18, $5.50—No. 19, $6—No. 20, $6.65—No. 21, $7—No. 22, $7.30—No 23, $7,65—No. 24, $8—No. 25, $9—No. 26, $9.50—No. 27, $10—No. 28, $11—No. 29, $12—No. 30, $13—No. 31, $14—No. 32, $15—No. 33, $16—No. 34, $17. Extras net—tinned wire, Nos. 17-25, $2—Nos. 26-31, $4—Nos. 32-34, $6. Coppered, 5c.—oiling, 10c.—in 25-lb. bundles, 15c.—in 5 and 10-lb. bundles, 25c.—in 1-lb. hanks, 25c.—in ½-lb. hanks, 38c.—in ¼-lb. hanks, 50c.—packed in casks or cases, 15c.—bagging or papering, 10c.
Brass wire, discount 60 per cent. off the list.
Copper wire, discount 60 per cent. net cash 30 days, f.o.b factory.
Galvanized wire, per 100 lb.—Nos. 4 and 5, $3.70 to $3.70—Nos. 6, 7, 8, $3.15 to $3.15—No. 9, $2.55 — No. 10, $3.20 to $3.20—No. 11, $3.25 to $3 25 — No. 12, $2.65—No. 13, $2.75—No. 14. $3.75 to $3.75—No 15, $4.30—No. 16. $4.30. Base sizes, Nos. 6 to 9, $2.37½ f.o.b. Cleveland. In carlots 12½c. less.
Clothes Line Wire, 7 wire solid line, No. 17. $4.90; No. 18, $3.00; No. 19, 2.70; 6 wire solid line, No. 17, $4.45; No. 18, $2.80; No. 19, $2.50. All prices per 1000 ft. measure. F.o.b. Hamilton, Toronto, Montreal.

WIRE FENCING.

Galvanized barb.....	2 50	2 75
Galvanized, plain twist	2 50	2 75

Galvanized barb, f.o.b. Cleveland, $2 30 for small lots and $2 20 for carlots.

COILED SPRING WIRE.

HighCarbon, No. 9.....	$2 70
" No. 11	3 35
" No. 12	2 95

WIRE CLOTH.

Painted Screen, per 100 sq. ft., net..	1 50

Terms, 2 per cent. off 30 days.

WASHING MACHINES.

Round, re-acting per doz.	56 00
Square " "	59 00
Eclipse, per doz	48 00
Dowswell "	36 00
New Century, per doz	72 00
Connor Improved.....	33 00
Daisy.....	48 00

WRINGERS.

Leader .....per doz.	30 00	33 00
Royal Canadian..... "	....	24 00
Royal American..... "	....	24 00
Sampson..... "	....	24 00
Lightning..... "	....	27 00

Terms, 4 months, or 3 per cent. 30 days.

WROUGHT IRON WASHERS.

Canadian make discount 40 per cent.

WORLD'S OUTPUT OF PIG IRON.

THE world's output of pig iron during 1904, according to the advices and estimates of The Iron and Coal Trades Review of London, was 44,575,000 tons, against 46,420,000 tons in 1903. The figures in tons are approximately as follows:

	1903.	1904.
Great Britain	8 811,204	8,400,000
United States	18,009,252	16,600,000
Germany	10 085,634	10,150,000
France	2,827,668	2,800,000
Russia (1902)	2,592,282	2,300,000
Austria-Hungary (1902)	1,470,000	1,600,000
Belgium	1,216,500	1,300,000
Sweden	506,825	500,000
Spain	380,284	350,000
Italy (1902)	43,335	75,279
Canada	265,418	300,000
Other countries	210,898	200,000
Totals	46,420,000	44,575,000

FALLING OFF IN FOREIGN TRADE.

THE Government trade returns for the nine months ending Mar. 31, 1905, show a falling off in the aggregate foreign trade of Canada of $3,662,395 as compared with the corresponding period last year. In exports of domestic products there is also a falling off of over $10,000,000. Exports of fisheries and manufactures continue to more than hold their own.

The grand total of imports for nine months was $188,784,809, as against $179,032,017 in the same nine months of the previous fiscal year. Increased imports is a sign of healthy trade conditions in this case, for the augmentation consisted almost entirely of free goods, being raw materials for manufacturing. So long as the increase in imports consists of raw materials and an exportation of domestic manufactures is maintained there is nothing much to complain about. Of course, one would prefer to see a greater shipment of agricultural products, but in that respect the trade returns for March exhibit a great improvement. Under almost every heading there has been a satisfactory gain, which gives rise to the hope that before long Canada's trade will exceed the high water mark of past years. Following are the details of the exports of domestic produce for the past nine months, and for March, 1905, as compared with the same months last year:

	1904.	1905.
The mine	$26,054,731	$22,907,006
The fisheries	8,266,436	8,484,529
The forest	24,682,645	23,231,452
Animals and their products	52,421,918	50,496,852
Agriculture	29,316,622	24,848,114
Manufactures	14,296,808	15,230,354
Miscellaneous	24,995	28,601
Total	$155,064,155	$144,862,908

	March. 1904.	March. 1905.
The mine	$2,726,114	$2,273,309
The fisheries	582,053	554,749
The forest	882,696	1,261,458
Animals and their products	3,363,635	3,678,901
Agriculture	2,352,331	1,495,863
Manufactures	1,550,169	1,899,275
Miscellaneous	7,866	2,555
Total	$10,464,864	$11,166,110

SOME FINE SHEARS.

H. Boker & Co. are putting on the market a new line of "Tree Brand" shears, and will give, with an order for half a dozen each of the three shears illustrated, free of charge, an oak cabinet showing one 7-inch medium shear, one 8-inch straight trimmer, and one 9-inch bent trimmer shear, with full nickeled blades and japanned bows. All leading wholesale firms are handling same.

WHO CAN ANSWER?

Mr. E. P. Paulin, hardware merchant, is looking for a purchaser for a supply of apple wood he has on hand. Can any of our readers give any information as to users of this commodity?

First lawn hose and then lawn mowers, grass catchers, cycles, weed pullers and lawn clippers follow right along, too.

* * *

Demand for rope continues good. It is increasing at all points where there is naval supply trade, owing to the opening of navigation. Prices are generally firm.

* * *

Make up fishing outfits to sell at a lump sum—not the cheap furnished lines, but good ones. Place a reel on a good rod, run in a good line and attach a sinker and troller. Then make up a small assortment of various sized hooks, trollers, sinkers, etc., and sell the whole outfit for a reasonable price. That will give the man that doesn't know, an idea just what it will cost him to become a full-fledged fisherman.

INDEX TO ADVERTISERS.

A

Acme Lathe & Products Co 49
American Shearer Mfg. Co 23
American Steel and Wire Co 11
Atkins, E. C., & Co 55
Armstrong Bros 11, 45
Atlas Mfg. Co 56

B

Barnett, G. & H., Co ..... outside back cover
Bartlett, Wm., & Son 54
Berry Bros 43
Birkett, Thos., & Son Co 1
Boss Machine Co 8
Boson Bros 56
Bradstreet's 64
Brantford Cordage Co ..... inside back cover
Butler, Geo., & Co 64

C

Canada Brass Rolling Mills 27
Canada Foundry Co 49
Canada Iron Furnace Co 35
Canada Paint Co 46
Canada Paper Co 23
Canadian Aluminum Works 28
Canadian Fairbanks Co 4
Canadian Rubber Co 14
Canadian Sewer Pipe Co 56
Clauss Shear Co 45
Consolidated Plate Glass Co 47
Consumers' Cordage Co 13
Contract Record 56
Covert Mfg. Co 48
Cutts, C. M. & Co 39

D

Davidson, Thos., Mfg. Co 2
Deseronto Iron Co 35
Dods, P. D., & Co 45
Dominion Wire Mfg. Co 7
Dorken Bros. ..... outside front cover, 6, 49
Dowswell Mfg. Co 47

E

Enterprise Mfg. Co 12
Enterprise Mfg. Co., of Akron, Ohio 51
Erie Specialty Co 64

F

Falkiner, H. F 50
Ferrosteel Co 59
Foster Pottery Co 50
Frothingham & Workman 9

G

Gibb, Alexander 22
Gies, Philip 23
Gilbertson, W., & Co 49
Glauber Brass Co 23
Greening, B., Wire Co 7
Grose, Walter 39
Grey & Bruce Portland Cement Co 54
Grove Chemical Co 45
Gurney Foundry Co 27, 51
Gurney, Tilden Co 53
Gutta Percha and Rubber Mfg. Co ..... outside back eover

H

Hankin, F 49
Hanover Portland Cement Co 54
Harrington & Richardson Arms Co 49
Heinisch, R., Sons Co 10
Henderson, J. A 49
Henderson & Potts Co 44
Herm, Weisschburger & Co 48
Hobbs Mfg. Co 55
Hotel Directory 64
Howland, H. S., Sons & Co 19
Hyde, F. & Co 35

I

Imperial Varnish and Color Co 42

J

Jackson, C. F., & Co 35
Jardine, A. B., & Co 23
Jenking, A. O 54
Johnson's, Iver, Arms and Cycle Works 18
Johnston, Rd., Clapham & Morris 6

K

Kemp Mfg. Co 14
Kerr Engine Co 22

L

Leslie, A. C., & Co 35
Lewis Bros. & Co 3
Lewis, Rice, & So ..... inside front cover
Lockerby & McComb 53
London Rolling Mill Co ..... inside back cover
Loughead, J. S., & Son 49
Lufkin Rule Co ..... inside back cover
Luxfer Prism Co 55
Lysaght, John ..... outside front cover

M

Mackenzie Bros 39
Maple Leaf Harvest Tool Co 5
Martell-Stewart Co 48
Mast, J. M., Mfg. Co 10
Maxwell, D., & Sons 6
Metallic Roofing Co 37
Montreal Rolling Mills Co 22
Morton, B. K., & Co 35
Morrison, James, Brass Mfg. Co 21
Morrow, John, Machine Screw Co 39

Mc

McArthur, Alex., & Co 58
McArthur, Corneille & Co 43
McCaskill, Dougall & Co 45
McClary Mfg. Co 28
McDougall, R., Co 35
McGregor-Banwell Fence Co 50

N

Naturo Co 24
Newman, W., & Sons 54
North Bros. Mfg. Co 1
North West Machinery & Iron Co 22
Nova Scotia Steel and Coal Co 35

O

Oakey, John, & Sons 50
Office Specialty Mfg. Co 61
Oneida Community 9
Ontario Tack Co 16
Ontario Wind Engine and Pump Co 49
O-So-Ezy Mfg. Co 54
Owen Sound Wire Fence Co 7

P

Page-Hersey Iron and Tube Co 23
Paterson Mfg. Co 60
Pedlar People 53
Penberthy Injector Co 25
Phillips, Chas. D 54, 57

Q

Queen City Oil Co 45

R

Ramsay, A., & Son Co 10, 25
Ross, J. A 10
Round, John, & Son 8
Royal Paper Mills Co ..... inside back cover
Russell & Erwin Mfg. Co 6

S

Sadler & Haworth ..... outside back cover
Samuel, M. & L., Benjamin, & Co 2
Sanderson-Harold Co 27
Saunders, Franklin & Co 49
Scott, Greenwood & Co 45
Seymour, Henry T., Shear Co 10
Sharratt & Newth 10
Shaw, A., & Son 10
Sherwin-Williams Co 17
Silberstein, A. L., & Co 1
Silica Barytic Stone Co 56
Skedden Brush Co 43
Smart, Jas., Mfg. Co 12
Smith & Hemenway Co 23
Solarine Metal Polish 50
Standard Ideal Sanitary Co 21
Standard Paint and Varnish Works 45
Stanley Rule and Level Co 54
Stephens, G. F., & Co 38

T

Taylor-Forbes Co. outside front cover, 52
Telephone City Stoves 51
Thompson, B. & S. H., Co ..... outside back cover
Thorne, R. E 22
Toronto Silver Plate Co 6
Turnbull & Henderson 22

U

United States Register Co 25
Utica Drop Forge and Tool Co 23

W

Wallace Barnes Co 23
Walter, E. F., & Co 4
Welsh Tinplate & Metal Stamping Co 4
Western Wire Nail Co 10
White Lead Association 47
Wilcox Mfg. Co 11
Wilkinson Sword Co 64
Winnipeg Paint and Glass Co 39
Wright, E. T., & Co 39

CLASSIFIED LIST OF ADVERTISEMENTS.

Aluminum Castings.
Canadian Aluminum Works Montreal.

Anvils
Taylor-Forbes Co., Guelph, Ont.

Art Glass.
Hobbs Mfg. Co., London, Ont.

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Cutts, C. M., & Co., Toronto Junction.

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Canada Cycle and Motor Co., Toronto.

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Bartlett, Wm., & Son, Toronto.

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Sadler & Haworth Montreal & Toronto.

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Canada Cycle and Motor Co., Toronto Junction.
Johnson's, Iver, Arms and Cycle Works, Fitchburg, Mass.

Box Straps.
Warminton, J. N., Montreal.

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Canada Brass Rolling Mills, Toronto.
Glauber Brass Mfg. Co., Cleveland, Ohio.
Lewis, Rice, & Son., Toronto.
Morrison, Jas., Brass Mfg. Co., Toronto.
Nicklin, J., & Co., Birmingham, Eng.
Penberthy Injector Co., Windsor, Ont.
Taylor-Forbes Co., Guelph, Ont.

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Eclipse Mfg. Co., Ottawa.
Ramsay, A., & Son Co., Montreal.
Skedden Brush Co., Hamilton, Ont.

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The Locators, Winnipeg.

Cans.
Acme Can Works. Montreal.

Carpenters' and Builders' Tools and Supplies.
Besson Bros., Brussles, Belgium.
Covert Mfg. Co., West Troy, N.Y.
Frothingham & Workman Co., Montreal.
Gurney, Tilden Co., Hamilton.
Howland, H. S., Sons & Co., Toronto.
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Lockerby & McComb, Montreal.
Lufkin Rule Co., Saginaw, Mich.
Metallic Roofing Co., Toronto.
Newman & Sons, Birmingham.
North Bros. Mfg. Co., Philadelphia, Pa.
Pedlar People, Oshawa, Ont.
Phillips, Chas. D., Newport, Eng.
Smith & Hemenway Co., New York.
Silica Barytic Stone Co., Ingersoll, Ont.
Stanley Rule & Level Co., New Britain.
Stanley Works, New Britain, Conn.
Stephens, G. F., Winnipeg.
Taylor-Forbes Co., Guelph, Ont.
Waggoner Ladder Co., London, Ont.
Warnock, James, Galt, Ont.

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Covert Mfg. Co., West Troy, N.Y.
Lougheed, J. S., & Son, Sarnia, Ont.

Cattle and Trace Chains.
Greening, B., Wire Co., Hamilton.
Oneida Community Co., Niagara Falls.

Chains—Heavy.
Frothingham & Workman, Montreal.

Churns.
Dowswell Mfg. Co., Hamilton.
Maxwell, David, & Sons, St. Marys.

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American Shearer Mfg. Co., Nashua, N.H.
Burman & Sons, Birmingham, Eng.
Dorken Bros. & Co., Montreal.

Clothes Reels.
Waggoner Ladder Co., London, Ont.

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Concrete Block Machine Co., Toronto.

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Brantford Cordage Co, Brantford, Ont.
Consumers' Cordage Co., Montreal.
Hamilton Cotton Co., Hamilton.

Cork Screws.
Erie Specialty Co., Erie, Pa.

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Turnbull & Henderson, Vancouver, B.C.

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Clauss Shear Co., Toronto.
Dorken Bros. & Co., Montreal.
Heinisch's, R., Sons Co., Newark, N.J.
Rouud, John, & Son, Sheffield, Eng.
Silberstein, A. L., New York.
Smith & Hemenway Co., New York.
Walter, E. F., & Co., Montreal.
Wiebusch & Hilger. New York.
Wilkinson Sword Co., London, Eng.

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Metropolitan Business College, Ottawa.
St. Margaret's College, Toronto.

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Canadian Aluminum Works, Montreal.
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Morrison James, Mfg. Co., Toronto.
Munderloh & Co., Montreal.

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London Fence Machine Co., London.

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Disston, Henry & Sons, Philadelphia, Pa.
Grose, Walter, Montreal.

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Western Assurance Co., Toronto.

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Walter, E. F., & Co., Montreal.

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Enterprise Mfg. Co., Philadelphia, Pa.
Lamplough, F. W., & Co., Montreal.
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Ontario Wind Engine and Pump Co., Toronto.

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Grove Chemical Co., Lancashire, Eng.

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Erie Specialty Co., Erie, Pa.
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Davidson, Thos., Mfg. Co., Montreal.
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Ice Cutting Tools.
Erie Specialty Co., Erie, Pa.
North Bros. Mfg. Co., Philadelphia, Pa.

Injectors—Automatic.
Morrison, Jas., Brass Mfg. Co., Toronto.
Penberthy Injector Co., Windsor, Ont.

Iron Pipe.
Montreal Rolling Mills Co., Montreal
Page-Hersey Iron and Tube Co., Guelph.

Iron Pumps.
McDougall, R., Co., Galt, Ont.

Ladders—Extension.
Waggoner Ladder Co., London, Ont.

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Kemp Mfg. Co., Toronto.
Ontario Lantern Co., Hamilton, Ont.
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Metallic Roofing Co., Toronto.
Pedlar People, Oshawa, Ont.

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Davidson, Thos., Mfg. Co., Montreal.
Kemp Mfg. Co., Toronto.
McClary Mfg. Co., London, Ont.
Wright, E. T., & Co., Hamilton, Ont.

Mops.
Tarbox Bros., Toronto.

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Montreal Rolling Mills Co., Montreal.
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Peck Rolling Mills Co., Montreal.

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Office Specialty Mfg. Co., Toronto.

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Canada Paint Co., Montreal.
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Hobbs Mfg. Co., London, Ont.
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Jamieson, R. C., & Co., Montreal.
Lewis, Rice & Son, Toronto.
Lucas, John, & Co., Philadelphia, Pa.
Luxfer Prism Co., Toronto.
McArthur, Corneille & Co., Montreal.
McCaskill, Dougall & Co., Montreal.
Montreal Rolling Mills Co., Montreal.
O-So-Ezy Mfg. Co., Montreal.
Queen City Oil Co., Toronto.
Ramsay & Son, Montreal.
Sherwin-Williams Co., Montreal.
Standard Paint and Varnish Works, Windsor, Ont.
St. George, H. E., London, Ont.
Thorne, R. E., Montreal.
White Lead Association of Canada, Montreal.
Winnipeg Paint and Glass Co., Winnipeg

Perforated Sheet Metals.
Greening, B., Wire Co., Hamilton.

Plumbers' Tools and Supplies.
Canada Brass Rolling Mill, Toronto.
Canadian Fairbanks Co., Montreal.
Glauber Brass Co., Cleveland, Ohio.
Gies, Philip, Berlin, Ont.
Gurney Foundry Co., Toronto.
Jardine, A. B., & Co, Hespeler, Ont.
Jenkins Bros., Boston, Mass.
Mechanics' Supply Co., Quebec.
Morrison, Jas., Brass Mfg. Co., Toronto.
Naturo Co., Salem, N.J.
Page-Hersey Iron & Tube Co., Guelph.
Standard Ideal Sanitary Co., Port Hope,
Utica Drop Forge & Tool Co., New York.

Portland Cement.
Canadian Portland Cement Co., Toronto
Grey & Bruce Portland Cement Co., Owen Sound.
Hanover Portland Cement Co., Hanover, Ont.
Hyde, F., & Co., Montreal.
Thompson, B. & S. H. & Co., Montreal.

Pottery.
Foster Pottery Co., Hamilton, Ont.

Poultry Netting.
Greening, B., wire Co., Hamilton, Ont.
Page Wire Fence Co., Walkerville, Ont.

Refrigerators.
Davidson, Thos., Mfg. Co., Montreal.
Ham & Nott Co., Brantford, Ont.
Sanderson-Harold Co., Paris, Ont.

Registers
Ferrosteel Co., Cleveland, Ohio.
United States Register Co., Battle-Creek, Mich.

Roofing Supplies.
Jenking, A. C., & Co., Montreal.
McArthur, Alex., & Co., Montreal.
Metal Shingle & Siding Co., Preston, Ont.
Metallic Roofing Co., Toronto.
Paterson Mfg. Co., Toronto & Montreal.
Pedlar People, Oshawa.
Taylor-Forbes Co., Guelph, Ont.

Saws.
Atkins, E. C., & Co., Indianapolis, Ind.
Disston, Henry, & Sons, Philadelphia, Pa.
Shurly & Dietrich, Galt, Ont.

Scales.
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New Warren Scale Co., Montreal.

Screen Doors and Windows.
Sanderson-Harold Co., Paris, Ont.

Screws, Nuts, Bolts.
Acme Lathe Products Co., Manchester
Bayliss, Jones & Bayliss, Wolverhampton, Eng.
Canada Foundry Co., Toronto.
Montreal Rolling Mills Co., Montreal.
Morrow, John, Machine Screw Co., Ingersoll, Ont.

Sewer Pipes.
Canadian Sewer Pipe Co., Hamilton
Hyde, F., & Co., Montreal.

Shelf Boxes.
Bennett Mfg. Co., Pickering, Ont.

Shelf Brackets.
Atlas Mfg. Co., New Haven, Conn

Silverware.
Toronto Silver Plate Co., Toronto.
Round, John, & Son, Sheffield, Eng.

Skates.
Canada Cycle & Motor Co., Toronto.

Stable Fixtures.
Greening, B., Wire Co., Hamilton, Ont.
Oneida Community Co., Niagara Falls Ont.

Steel Rails.
Algoma Steel Co—Drummond, McCall & Co., Agents, Montreal.
Jackson, C. F., & Co., Vancouver, B.C.
Morton, B. K., & Co., Sheffield, Eng.
Nova Scotia Steel & Coal Co., New Glasgow, N.S.

Storage Warehouse.
Mackenzie Bros., Winnipeg.

Store Lighting.
Auer Light Co., Montreal.

Stoves and Tinware, Radiators, Furnaces, etc.
Canadian Heating & Ventilating Co. Owen Sound.
Davidson, Thos., Mfg. Co., Montreal.
Gies, P., Berlin, Ont.
Gurney Foundry Co., Toronto.
Kemp Mnfg. Co., Toronto.
McClary Mfg. Co., London.
Ross, J. A., Winnipeg, Man.
Smart, Jas., Mfg. Co., Brockville, Ont.
Wright, E. T., & Co., Hamilton.

Tacks.
Ontario Tack Co., Hamilton.
Peck Rolling Mills Co., Montreal.

Traps.
Mast, J. M., Mfg. Co., Lititz, Pa.

Typewriters and Supplies.
United Typewriter Co., Montreal.

Wall Paper.
Stauntons Limited, Toronto.

Washing Machines, etc
Boss Washing Machine Co., Cincinnati, O.
Connor, J. H., & Son, Ottawa.
Dowswell Mfg. Co., Hamilton, Ont.
Taylor Forbes Co., Guelph, Ont.

Wholesale Hardware.
Birkett, Thos., & Sons Co., Ottawa.
Frothingham & Workman, Montreal.
Howland, H. S., Sons & Co., Toronto.
Kennedy Hardware Co., Toronto.
Lewis Bros. & Co., Montreal.
Lewis, Rice, & Son, Toronto.

Window and Sidewalk Prisms.
Hobbs Mfg. Co., London, Ont.
Luxfer Prism Co., Toronto.

Wire Springs.
Henderson, J. A., Montreal.
Wallace-Barnes Co., Bristol, Conn.

Wire, Wire Rope, Cow Ties, Fencing Tools, etc.
American Steel and Wire Co., New York, Montreal, Chicago.
Bayliss, Jones & Bayliss, Wolverhampton, Eng.
Canadian Steel & Wire Co., Hamilton.
Dennis Wire and Iron Co., London, Ont.
Dominion Wire Mnfg. Co., Montreal
Greening, B., Wire Co., Hamilton.
Ironside, Son & Co., London, Eng.
McGregor - Banwell Fence Co., Walkerville, Ont.
Montreal Rolling Mills Co., Montreal.
Oneida Community, Niagara Falls.
Owen Sound Wire Fence Co., Owen Sound
Page Wire Fence Co., Walkerville, Ont.
Walter, E. F. & Co., Montreal.
Western Wire & Nail Co., London, Ont.
Wilcox Mfg. Co., London, Ont.

Woodenware.
Bennet Mfg. Co., Pickering, Ont.
Taylor-Forbes Co., Guelph, Ont.
United Factories, Toronto.
Waggoner Ladder Co., London, Ont.

Wrapping Papers.
Canada Paper Co., Toronto.
McArthur, Alex., & Co., Montreal.
Royal Paper Mills Co., East Angus

Butler's
Famous Cutlery
AND
Electro-plate.

Sole Makers of Butler's "KEEN" Razors, the "Cavendish" Brand of Table Knives, Carvers, and Plate (Regd.).

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GEORGE BUTLER & CO.'S
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62 HOLBORN VIADUCT, E.C.
(Over Snow Hill Station).
Manufactory: Trinity Works,
SHEFFIELD, ENGLAND.

"BUTLER" was Registered as a Trade Mark A D. 1768.

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By Royal Warrant Sword Cutlers to HIS MAJESTY THE KING

By Royal Warrant Sword Cutlers to H.R.H. THE PRINCE OF WALES

WILKINSON SWORD CO., LTD.

Manufacturers Of

RAZORS

GOLD MEDAL AWARDED 1904

Patent Safety
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CUTLERY

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Made from Finest Sword Steel

General Electro Plate

Our Representative is now in Canada, and will be calling upon you.

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In this paper cost 2 cents per word first insertion, 1 cent per word subsequent insertions. Contractions count as one word, but five figures (such as $1,000) may pass as one word. Cash remittance to cover cost **must in all cases** accompany orders, otherwise we cannot insert the advertisement. When replies come in our care 5 cents additional must be included for forwarding same. Many large business deals have been brought about through advertisements of 20 or 30 words. Clerks can be secured, articles sold and exchanged, at small expenditure.

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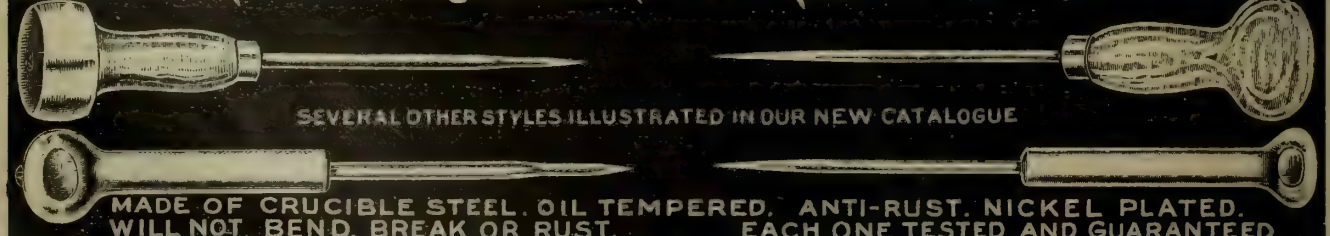
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MADE OF CRUCIBLE STEEL. OIL TEMPERED. ANTI-RUST. NICKEL PLATED.
WILL NOT BEND, BREAK OR RUST. EACH ONE TESTED AND GUARANTEED.

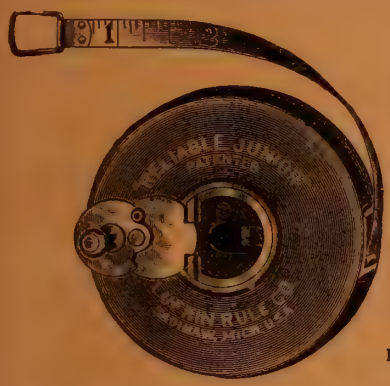
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IRON STEEL

Bars in Flats, Rounds, Squares, Ovals, Half-Ovals, Half-Rounds and Bands. Also Wrought Washers.

GOOD QUALITY. PROMPT SHIPMENT.

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Limited,
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LUFKIN MEASURING TAPES

Steel, Metallic, Linen, Pocket, Ass Skin, Pat. Leather, Bend Leather, Etc.

ARE THE BEST AND MOST POPULAR TAPES IN THE WORLD.
YOUR STOCK IS NOT COMPLETE WITHOUT THEM.

LUFKIN RULE CO., Saginaw, Mich, U.S.A.

London Office and Warehouse—48 Lime St. New York City Branch—280 Broadway.

For sale by ALL PROMINENT CANADIAN HARDWARE JOBBERS.

THEY ARE GROWING:

—The capacity of our factory and its annual output ;
—Our list of customers, and the volume of our sales ;
—The popularity of our goods (and that is our great satisfaction)

BECAUSE

The 4 Maple Leaf Brands of Binder Twine

Have proven themselves to be

TRADE MARK
(Registered)

Best for the **FARMER** to buy to USE,
therefore
Best for the **DEALER** to buy to SELL.



BINDER TWINE.

GILT EDGE, 650 ft. Pure Manila
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Write for Samples and Prices.

The Brantford Cordage Company,
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WE ARE MANUFACTURERS OF

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Our Specialties are

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Est. 1808. Inc. 1895.

Black Diamond File Works

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Twelve Medals



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By **JURORS** at
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WALTER GROSE, Montreal, SELLING AGENT FOR THE DOMINION.

The Fisk
Detachable Motor Tire



Has its greatest elasticity at the sides, where it should be, giving unusual resilience.

Has a tread of extraordinary strength and toughness, giving great durability.

Has a firm and solid base so that the tire can be run flat, if need be, with little injury and with safety.

Easy and quick removal or attachment, with a common wrench.

Absolute freedom from creeping or rolling.

Manufactured in Canada solely by

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Head Offices:
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PORTLAND CEMENT

FOR IMPORT ORDERS WE ARE NOW PREPARED TO QUOTE PRICES FOR

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BEST GERMAN CEMENT
BEST BELGIAN CEMENT
NATURAL BELGIAN CEMENT

IN BARRELS OR SACKS.

B. & S. H. THOMPSON & Co.
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Montreal, Toronto.

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A Weekly Newspaper devoted to the Hardware, Metal, Heating and Plumbing Trades in Canada.

VOL. XVII. MONTREAL AND TORONTO, MAY 27, 1905 NO. 21

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CASED GOODS
TABLE CUTLERY



BUTCHERS'
HUNTING &
POCKET KNIVES

CUTLERY.

FOR SALE BY LEADING WHOLESALE HOUSES.

"Southern Cross" Steel Sheets

The favorites with Stove Makers.

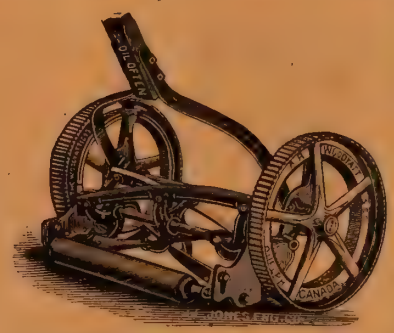
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For particular people. Will stand any work.

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"Time Writes No Impress"



"The Woodyatt"

"Time Writes No Impress" on **"The Woodyatt"** Lawn Mower, and **never** will it. **"The Woodyatt"** is the Lawn Mower Par Excellence of Canada. Every inch of it is Made in Canada—**made** and **guaranteed**. This is quite a contrast to some American mower makers whose guarantee is on a par with the material in their machines—so inferior that the Canadian people are awaking to the fact that there are mowers **and** mowers. **"The Woodyatt"** has all the latest contrivances and adjustments, and can be had in 12, 14, 16, 18 and 20-inch sizes.

We can ship these goods from stock NOW no matter how big your order is. Send for Lawn Mower Catalogue "C."

Taylor-Forbes Company

Montreal Branch :
9 De Bresoles St.

The Largest Manufacturers of Hardware in Canada.

LIMITED.
GUELPH, CANADA

Classified List of Advertisements on Page 63.

CEMENT TOOLS

We carry a full line of the newest style Cement tools, and dealers will find that they are good sellers, as our prices are right.



CORNER TROWEL

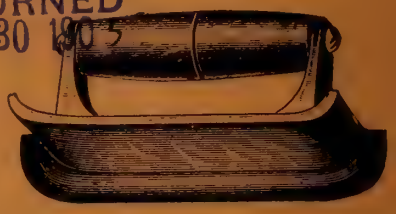
We can ship promptly any tool you may require for Cement laying. Now is season to have them on hand. Do not keep your customer waiting.



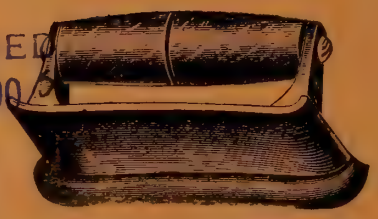
STRAIGHT END JOINTER



POUNDER



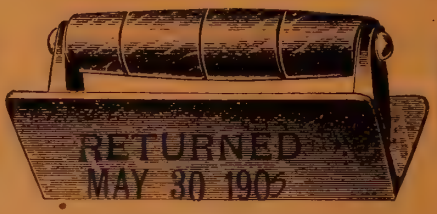
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BRONZE DOT ROLLER



CORNER TROWEL



LINE ROLLER

Write for Catalogue and Prices.

RICE LEWIS & SON

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TORONTO.

PATENT

LOCK-NUT.



BAYLISS, JONES AND BAYLISS, Ld.

ARE SOLE OWNERS AND MANUFACTURERS



Made from ¼ in. to 2 ins.

SAMPLE NUT AND COMPLETE LIST MAILED FREE.

Also Manufacturers of BOLTS, NUTS, PATENT TIE BARS, RAILWAY AND TRAMWAY FASTENINGS, IRON AND WIRE FENCING, HURDLES, RAILING, GATES, Etc.

VICTORIA WORKS:— **WOLVERHAMPTON,** (ENGLAND).

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Hardware Merchants

and

General Store Keepers

we solicit a call or inquiry.

THOS. BIRKETT & SON CO., LIMITED

WHOLESALE HARDWARE MERCHANTS

OTTAWA, ONT.



"AMERICAN" (2 in 1) TWIN FREEZERS

Freezes two flavors of Ice Cream or an Ice or Sherbet and Ice Cream at one and same time, in one Freezer Something entirely new. Never done before.

ASK YOUR JOBBER FOR THEM.
SEND FOR NEW FREEZER BOOK.

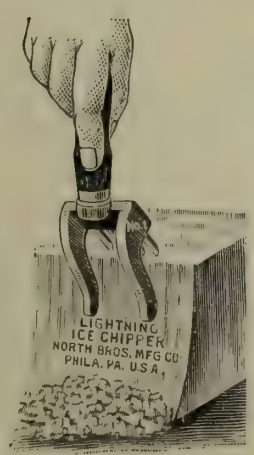
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"LIGHTNING" "GEM" "BLIZZARD"



THE BEST ICE CREAM FREEZERS in practical use, because convenient, compact in size, use smallest amount of ice and salt, run easily, freeze quickly, produce smoothly frozen creams or desserts with little bother and less work.

THE ONLY FREEZERS MADE having Cedar Pails with Electric Welded Wire Hoops Cans of Heavy Tin with Drawn Steel Bottoms, **Automatic** Tin Scrapers.







"LIGHTNING" "CROWN" "GEM"
ICE CHIPPERS ICE SHAVE



A Catalogue showing a full line of these stoves mailed on application

The "Standard" Blue Flame Wickless
COAL OIL AND GASOLINE STOVES

Absolutely Safe and Easy to Operate
Lights Instantly and Cooks Quickly

Simply turn on the oil and apply the match

"Standard" Safety Gasoline Stoves are constructed according to the safety requirements of the National Board of Fire Underwriters, and are on their list of "Permitted Stoves."

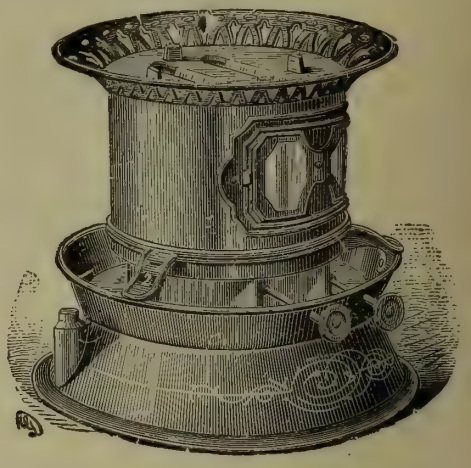
THE

"PRINCESS" COAL OIL STOVE

(TWO BURNERS)

A Good Serviceable Stove and a Powerful Cooker, at a very low price.

We have also in stock the "Summer Girl," "Eagle" and German Oil Stoves, Extension Tops, Wicks, etc. Write for prices.



The Thos. Davidson M'f'g Co., Limited
MONTREAL.

COPPER

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Large Stocks Close Prices

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English House—16 Philpot Lane, LONDON, ENGLAND

Why pay Fancy Prices

for

Tool Steel?

The time has gone by when people will pay for a name. We can demonstrate to you in a practical way that

CONQUEROR TOOL STEEL

is equal in every respect and superior to most of the brands that are sold for

Double the Price

It is made at The Baltic Works, Sheffield, where they have made Tool Steel since 1819.

We carry large stocks of Rounds, Squares and Octagon. Also Cant, Dog and Blister Steel.

Send us a sample order. If you are not satisfied it will not cost you a cent.



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To Montreal Cust Book 3 Page 61

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Address all Correspondence to

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Vancouver
Calgary

THE PROMPT SHIPPERS OF MAIL ORDERS

HILGER'S HARDWARE

Guaranteed Best Quality

SOLE AGENTS FOR CANADA

E. F. WALTER & CO., 166 and 168 McGILL STREET MONTREAL



HOLLOW-WARE

PRESSED, STAMPED, and MACHINE-MADE

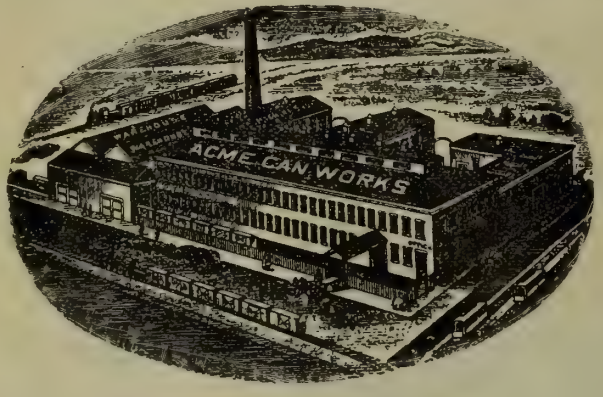
ENAMELLED, TINNED, GALVANIZED and JAPANNED

We manufacture every description of Hollow-ware and we guarantee that every piece is made wholly on our own premises. Our average weekly capacity, is over 700,000 pieces, of Tinned, Galvanized and Enamelled ware. Our Enamelled ware is of superior durability and finish, and is guaranteed free from any poisonous substances.

Let us have your name for our illustrated lists

The Welsh Tinplate & Metal Stamping Co., Ltd.

LLANELLY, WALES



When In Need of Cans, Serve Your Best Interests and Consult Us

Acme Can Works

make the largest assortment of any factory in America of TIN CANS by the latest up-to-date automatic machinery

We are the only makers in Canada of KEY-OPENING MEAT CANS, POULTRY CANS. They are our specialties.

Manufacturers for Canada of

Jewett's Self-Heating Can.

We solicit inquiries for prices on

Baking Powder, Oil, Syrup, Lye, Paint, Varnish, Condensed Milk, Poultry, Fruit, Vegetable } Cans

Lard, Syrup, Butter } Pails

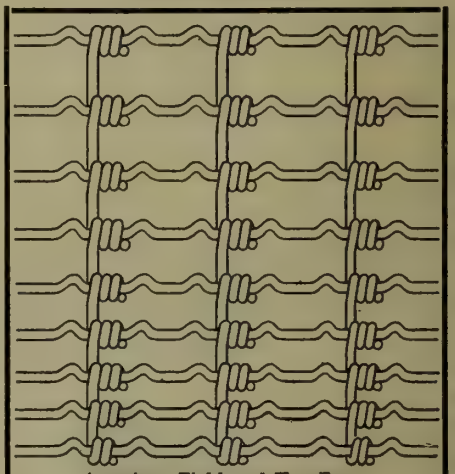
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Ontario Street East, - - MONTREAL, P.Q.

Galvanized Steel Woven Wire Fence

HIGH CARBON

The proof of the pudding is, that more of our Fences are in use than all other makes of Wire Fences Combined



American Field and Hog Fence

Ellwood Field and Lawn Fence

We call your special attention to our Extra Heavy Fence, all Horizontal Wires No. 9 Gauge. Weighs more per rod, has greater tensile strength than any other Fence on the market

If your Dealers do not handle our Fences write to us

THE CANADIAN STEEL AND WIRE CO., LIMITED

WINNIPEG, MAN. HAMILTON, ONT.

Have You Seen Them ?

For Beauty, Finish and Quality, the "Maple Leaf" Harvest Tools are unexcelled.



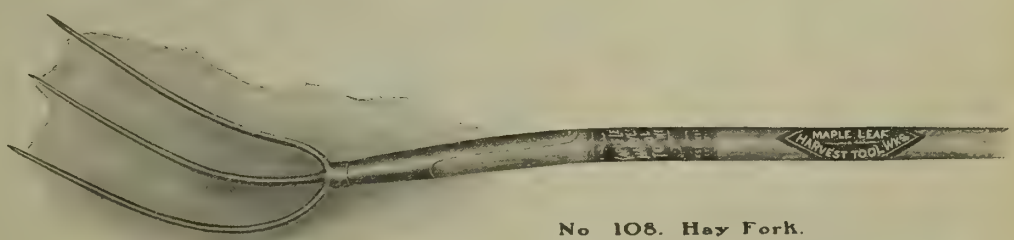
No. 122. Manure Fork.



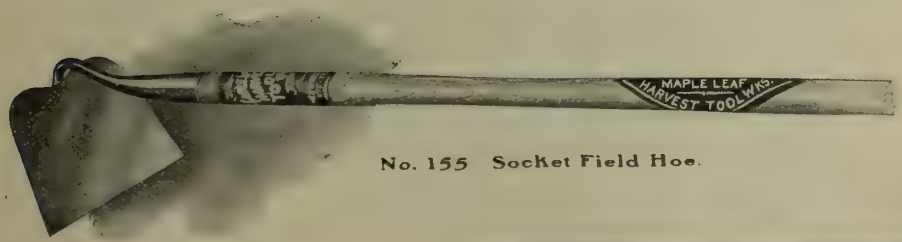
No. 138. Spading Fork.



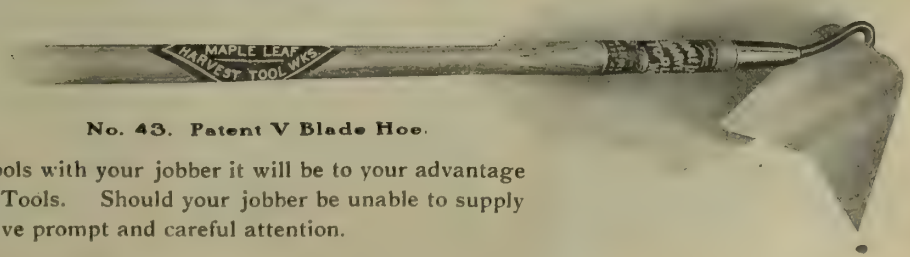
No. 243. Beet Fork.



No 108. Hay Fork.



No. 155 Socket Field Hoe.



No. 43. Patent V Blade Hoe.

TO THE HARDWARE TRADE—

When placing your order for harvest tools with your jobber it will be to your advantage to **specify** for the **"Maple Leaf"** Harvest Tools. Should your jobber be unable to supply them, send your order to us and it will receive prompt and careful attention.

The Maple Leaf Harvest Tool Co., Limited, Tillsonburg, Ont.



The Sarnia Hub, Spoke and Bent Goods Mfg. Company.

Sarnia, Ont.

We are prepared to fill any orders for

Heavy Wagon, Sleigh, Buggy, and Cutter Stock.

We make a specialty of heavy stock and can fill orders promptly. Made from the best of oak and hickory as we carry a large stock of lumber and can make any sizes that may be required. We make it a point to fill orders promptly.

If you are in need of anything in our line we will be pleased to hear from you and we will give it our prompt attention.

J. S. LOUGHEAD & SON, Sarnia, Ont.

Buy the Best.



HERCULES

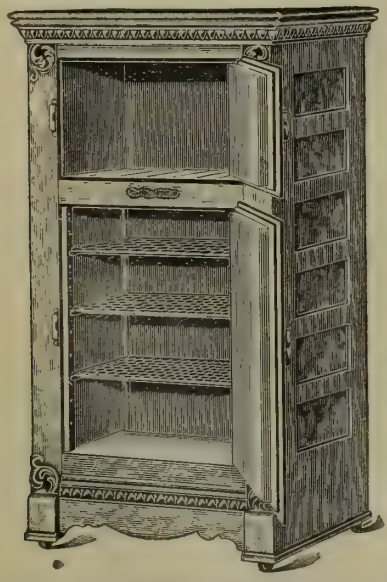
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Star Brand Cotton Rope

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ALL Leading Dealers handle the Best and Largest Line of Refrigerators on the market. That's **OURS**

HAM & NOTT CO., Limited, BRANTFORD, ONT.

WRITE FOR CATALOGUE.



Steel Frame Support.

DAVID MAXWELL & SONS

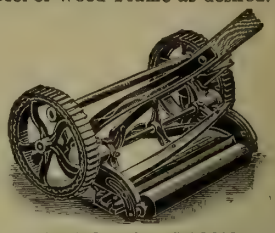
ST. MARYS, ONT., CANADA.

"Maxwell Favorite Churn."

PATENTED FEATURES: Improved Steel Stand, Roller Bearings, and Foot and Hand Lever Drive, and Detachable Driving Link. Improved for season of 1904. Steel or Wood Frame as desired.

Lawn Mowers.

High and Low Wheels, from 12 in. to 20 in. widths. Cold Rolled Steel Shafting, Crucible Steel Knives and Cutting Plate.



If your Wholesale House does not offer you these articles

SEND DIRECT TO US.



MAXWELL MOWER

8-in. Low Wheel.

Wheelbarrows.

In Four Different Sizes.

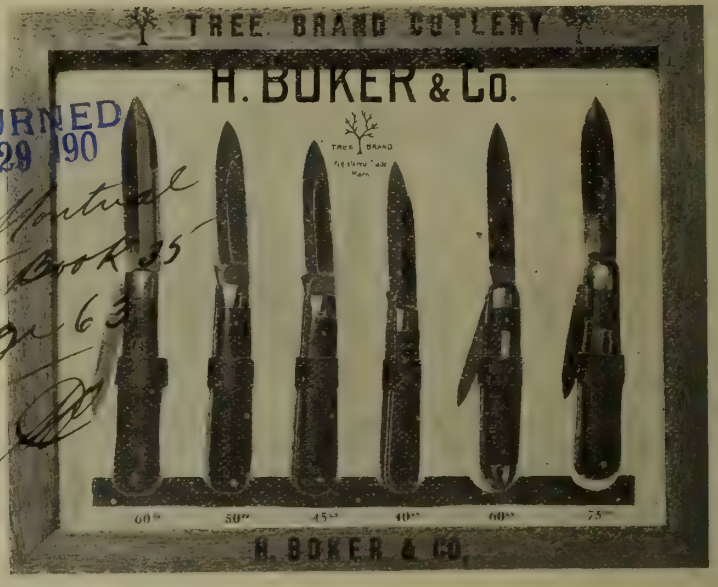
J.C.M.

Galvanized Dead Flat Sheets

made from British Siemens Martin Steel only; most reliable for working up. Apply for samples and prices to:

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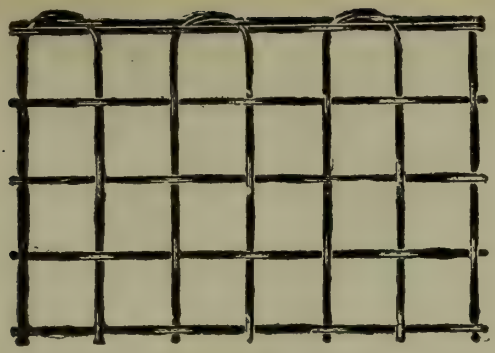


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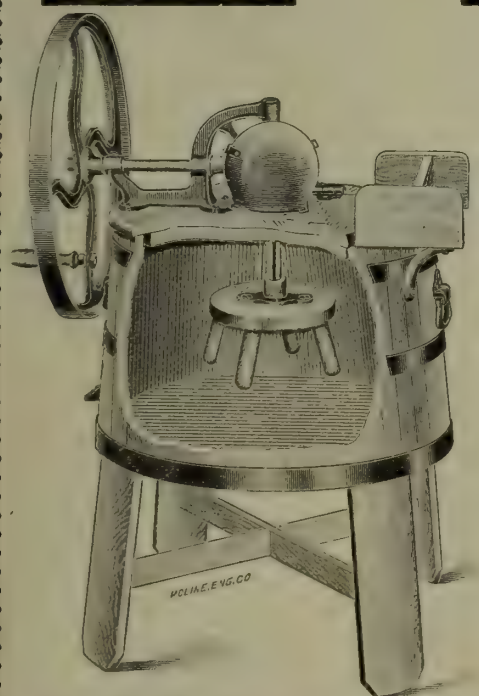
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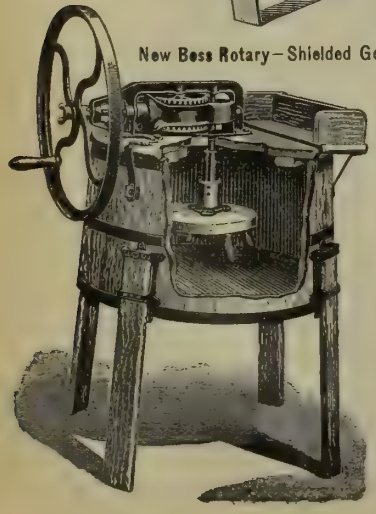


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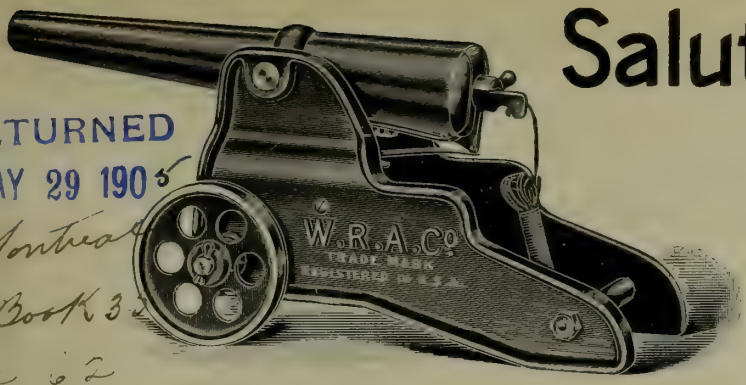
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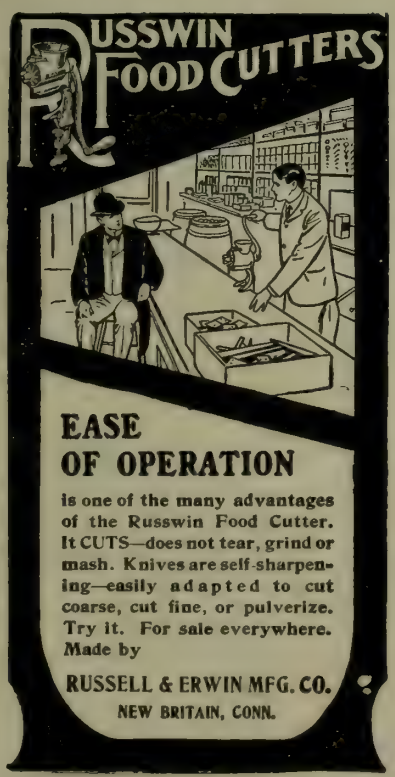
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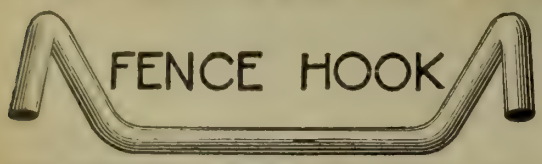
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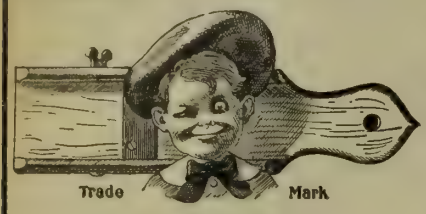
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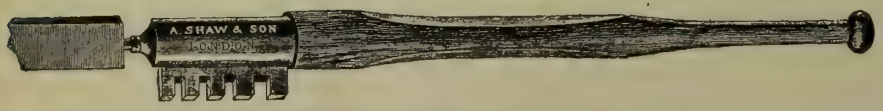
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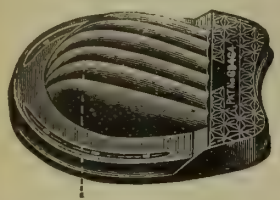
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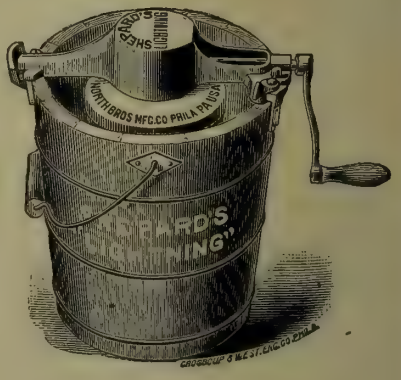


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The Sanitary Condition of the Muskoka and Kawartha Lakes District.

By Chas. A. Hodgetts, M.D., and John A. Amyot, M.D.

THE growing importance of the lake districts, as a health resort during the Summer months for the thousands of Canadian as well as American tourists, who seek these regions to regain health or repair their constitutions after a year's residence in crowded cities and towns, where incessant toil both mental and physical combined with the carking cares of life compel them in the heat of Summer to seek the invigorating air and the quiet repose, which nature has provided so bountifully in the lakes of the Highlands of Ontario, calls for the most earnest consideration if this portion of the province is to be preserved for the purpose for which nature intended it—the Summer health resort of the American continent, a place "where every prospect pleases and only man is vile"—then rules of a preventative character must be enforced to conserve in perpetuity this inheritance which may well be the envy of others not so blessed.

The object to be obtained is the conserving of the waters of the lakes and streams, which in their natural state are potable, so that the minimum amount of pollution shall take place from the hotel, the Summer home, the farm of the settler, the steamers plying the lakes, and lastly and most important, the towns and villages situated on the shores of the rivers and lakes.

Topography. — The districts reported on are situated to the east of the Georgian Bay and north of Lake Ontario, the Kawartha chain lying a little to the south-east of the Muskoka group; both, however, being pretty nearly at the same altitude above the sea—the relative heights being as follows :—

Muskoka Group.

Lake Joseph	748
Muskoka Lake	745
Rosseau Lake	748

Kawartha Group.

Buckhorn	805
Cameron Lake	835
Chemong Lake	805
Lakefield	770
Stoney Lake	768

Their relative altitude to three chief cities of the province is as follows :

Toronto, City Hall	296
Hamilton, City Hall	323
Ottawa, City Hall	247

The Geological Formation. — The islands and shores of the Lakes of Muskoka are composed mainly of gneiss and granite scantily covered here and there with soil, the composition of which is chiefly granite sand and vegetable matter. There are, however, places along the mainland where the earth is of considerable depth and capable of cultivation, particularly is this the case on the west shore of Lake Muskoka.

Municipal Relationship. — The lakes themselves lie within the boundaries of different municipalities, the Muskoka Lakes being situated in the following townships : Humphrey, Cardwell, Medora, Watt, Wood, Monck, Muskoka, with the following towns, Gravenhurst at the southern extremity of Lake Muskoka, and Bracebridge on the Muskoka River. The Kawartha Lakes lying in the townships of Bexley, Somerville, Fenelon, Vrulaur, Harvey, Ennismore, Smith, Burleigh, Druro, Dummer, and the following incorporated towns thereon: Fenelon Falls, Bobcaygeon, Lindsay and Lakefield.

The shores and islands of Stoney Lake of the Kawartha Group more nearly similate those of Muskoka than any of the others of this district, lime-stone appearing in place of the gneiss in some places. The shores of the remaining lakes are of a gravelly nature with here and there clay and lime-stone formation, while some of the rivers are marshy owing to the banks being, in many instances drowned lands. The waters of both these groups are potable, the Muskoka waters being darker in color and softer than those of the Kawartha Lakes.



Septic Tank, Covered with Sod and Garden in Rear, Port Sandfield, Muskoka Lakes.



Rear View, Septic Tank Sanitary Closet System, Prospect House, Muskoka Lakes.

Conditions. — Owing to the work done in the Muskoka Lakes by Dr. Bryce for several years past, and the satisfactory evidences found on every hand of the good results accruing therefrom, it would seem best to describe the present condition of the hotels and private houses of the two districts under separate headings. The estimated daily Summer population of the hotels on the Muskoka Lakes is between 5,000 and 6,000, while that of the private residences must not be far short of that number, indeed often it must exceed it.

Pollution by Householders. — We found that many of the Summer residents drew their water from the same bay or locality into which the closets drained,

and the kitchen slops ultimately found their way, and we are of opinion that as most of these residences make no provision either for the treatment of the sewage or are supplied with dry earth closets, that the greatest source of danger at present existing in this district is from the residences themselves and it behoves the owners to initiate some system to prevent the pollution which is of so wide-spread a character.

Hotels. — The majority of the hotels on the other hand, have instituted, in many instances—for some years—the disposal of their sewage, by means of a septic tank and sub-surface tiles, and certainly from the provision already made by the hotel proprietors a great danger which hitherto existed has been materially diminished, although much work remains yet to be done. We would particularly note that for some years the septic tank has been in use at the Monteith House, Rosseau, and Prescott House, Port Sandfield, and in both cases the proprietors report with most satisfactory results.

Through the kindness of Mr. Cockburn of the Muskoka Navigation Co., we were enabled to inspect the septic tanks, which have been in use for two seasons on the S.S. Medora and Nipissing made on the recommendation of Dr. Bryce. We are pleased to state that both Mr. Cockburn and the captain stated that this year there has not been a complaint regarding their working, but on the contrary they have given every satisfaction. The tanks are only in use on two of the seven vessels of the fleet, the smaller ones, five in number, not having any such provision and no precautions are taken in the emptying of closets and urinals, or of the kitchen waste.

The following is a summary of the present condition of the Muskoka Summer Hotels, as far as inspected, some thirty-two in all :

Septic Tank and Tiles	11
Septic Tank and Filter	1
Cesspool	2
Closets (outside) or earth closets	18
Water Supply (a) from lake	29
From Well	1
From Springs	2

The hotels having the septic tank installed were distributed as follows :

Lake Rosseau	6
Lake Joseph	2
Indian River	2
Lake Muskoka	1

and one each on Rosseau and Indian River, had cesspool only; while the hotel with supposed filter system is situated on Lake Joseph.

Septic Tanks in Hotels.

Of these hotels having the septic tank installed, we found that in one case the proprietor had blocked up the automatic flush valve, so that the sewage passed directly through the tank into the tiles, which as a consequence had become blocked up, and that which otherwise should have "blossomed like a rose" had become a nuisance. A good instance of how want of intelligence in the proper supervision of the system results in the condemnation of what, under other management, is a success.

The instance where the effluent was being discharged on to filter beds was not showing as good results as could be desired, indeed the odor was quite noticeable and disagreeable. At one hotel where the proprietor stated he had put in a septic tank on recommendation of Dr. Bryce, but found it did not work, he had somewhat inadvisably piped the sewer to a considerable distance back of the hotel to a low piece of ground, and here we found the sewage simply flowing over the land, with cattle pasturing in the same fie,d. In this case we consider the disposal should be by sub-surface tiles, and the earth closets in the rear of the hotel should be done away with.

The changes are much needed here owing to the fact that upon the same island there is a large population in some 25 cottages upon which large sums of money had been spent. The sanitary arrangement of these will be referred to later. In case of two of the cesspools, steps should be taken to require the use of underground tiles, for under the present system there is no way of determining what ultimately becomes of the effluent, and it was just possible it found its way into the lake not far from the intake pipe supplying the hotel with water.

As to the cesspools and earth closets, we found that the condition of the former was far from satisfactory, and to mention them is but to condemn their use. Many of the earth closets were, however, kept in a good sanitary condition, while some were found to be lacking in careful and periodic removal of the excreta, and were so placed that every rain storm washed a portion of their contents into the waters of the lakes.

Sources of Water Supply.

It will be seen from the above summary it will be seen that 29 of the hotels derive their water supply from the lakes. In most instances both hot air engines and wind mills are used to pump the water into tanks placed at a convenient distance from the buildings, and at such a height as to supply each flat in the hotel. As to the source of the supply of waters, we found, generally speaking, the intake is placed at a point where the water is least likely to become contaminated with sewage.

In one instance, however, such was not the case, the offender being the largest hotel in the district. The large laundries and other outbuildings are situated to the rear of the hotel, and the drain apparently carries the slops, etc., into the bay at the foot of the rock upon which these buildings are erected; and further, the intake pipe is situated in the same bay. Again, a wooden septic tank is situated close by, which we are of the opinion is not working satisfactorily and the sewage from which may possibly find its way into the same bay, should anything unfortunately go wrong with the system—a contingency which must be provided for. Disastrous results might follow in an outbreak of enteric fever or diarrhoea amongst the guests—and we would recommend that changes be made to remedy the same.

The procuring of water from wells in this district does not appear to us desirable, as the source of the water is uncertain, and the possibility of contamination great

The great care which an hotel proprietor will take to protect his water supply from contamination was noticed at Rosseau, where the Monteith House is supplied with spring water, some twelve acres of land having been purchased by the proprietor, with a view of preventing contamination anywhere in the gathering ground. In comparison to this we found the other hotel which derives its supply of water from a creek, had upon its own premises closets and a barn, both above the point in the creek from which the water is taken.

Regarding the sanitary conveniences provided in the hotels, we are pleased to state that in many instances the lavatory accommodation was of the best — no money being spared in the securing of the latest and best style of closets, urinals and wash basins.

Private Residences.

In some instances the bathroom conveniences equalled those of many private houses—and what is of still greater importance, the plumbing work was good.

Limited time at our disposal did not permit the examination of each residence, for upon the chain of lakes there are more than three hundred, but from personal examination and inquiry, we found that fifteen of the Summer residences have installed as a system of drainage, the septic tank and subsurface tiles, three we know definitely have house plumbing with cesspool, and two plumbing only,—the untreated sewage being run directly into the lake, and a complaint was lodged with us regarding one of these.

We examined the premises of twelve residences close to Beaumaris, and found that the owner of one of these had, at apparently considerable expense, installed what is known as the "Waring System." This had been in use some two years. The distribution of the tank effluent is by means of iron pipes and laterals placed here and there, from which the liquid flows over the rocks and surrounding soil, where it is either absorbed or evaporated — in any case there is a possibility of a nuisance being created at points where the sewage accumulates and septic action takes place —and again the distributing pipes being of iron, will not last as long as tiles, and the sub-surface distribution is, in our opinion, preferable. Some nine others have built apparently cesspools, but have not provided in a satisfactory manner for the disposal of the effluent, which it is possible to do at additional small expense, as the soil is suitable for the use of tiles. We would, however, commend the good work done by the residents at Beaumaris in the disposal of their sewage, and wish we could speak as favorably of those residing in the other sections of the district.

The general principles followed in the disposal of human excreta, where no such system as referred to above has been adopted, are either the pit or dry earth—and the care taken to dispose of the contents of the pit or box varies with the attention given to it by the householder—some are careful, many are

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indifferent, but we find evidence of some attention being given to sanitation.

Private Water Supplies. — The chief source of supply are the waters of the lakes, and instances were noticed where the closets drained into the same bay from which the water supply was taken.

Permanent Residents.—We found that this class of residents has done little or nothing to prevent contamination of the waters of the lakes. As a rule the farmer's barnyard drains towards the lake,—his closets, which are used all the year around, are similarly situated,—and it is the same with such hamlets and towns as Bala, Rosseau, Windermere, Port Carling and Gravenhurst.

Gravenhurst, which is the port of entry for most of the tourists, presents anything but a pleasing picture as regards sewage disposal and water supply. One of the principal hotels derives its water supply from a well situated in the centre of the yard at the back, and around it are grouped barns, driving sheds, closets (the only ones on the premises), and a wooden tank into which is run the kitchen slops, etc.

Sanatorium. — We were kindly shown in this institution by Dr. Elliott, the superintendent. The water supply is taken from a point several hundred feet from shore, and pumped to a tank with a capacity of 5,000 gallons. At the time of our visit some obstruction had occurred in the intake. The sewage from the main building is run into a tank 9 x 9 x 10 feet, and the overflow from this is carried to a creek at the rear of the Sanatorium, which creek runs into the lake at a point about a quarter of a mile distant. The so-called free Sanatorium is provided with a septic tank and sub-surface tiles for the distribution of the effluent.

The Kawartha District.

In contrast with the Muskoka district it will be seen that little or nothing has been done either by hotel proprietors or Summer residents looking to a more systematic disposal of excreta and house waste, although the action taken by the residents at Sturgeon Point in securing incorporation and placing their property under the control of a corporation is unique, and it is worthy of further consideration as to how far the plan can be introduced in similarly situated resorts.

Of the nine hotels inspected we found as follows: Four had a system of water works and ran the sewage into a tank the overflow finding its way into either a gully or the water—the other five had no provision other than a pit or dry earth closet. The water supply in seven instances was from the lake, and in the other two it was spring water.

Situated upon the lakes visited are the towns or villages of Coboconk, Fenelon Falls, Lindsay, Bobcaygeon, Bridgenorth—the only one of which has a system of sewage being that of Lindsay.

The other towns and villages are entirely lacking in the matter either of public water supply or sanitation of closets, or of a system for the disposal of garbage, and if it is the desire of these places to uphold the reputation of the district as a health resort it behoves them to at once get to work as municipalities and institute some system which will make them clean and attractive.

Some 229 private houses came in under our notice, and in most of them the closets were either the ordinary pit, where depth of soil permitted the same being dug, or the dry earth system, while a few, the more careless, had the closet placed directly over the water, and in one instance a stream ran through the closet from which it issued in cool crystalline purity (?) to quench the thirst of the passing tourist.

At Sturgeon Point where there is situated a group of some 80 Summer residences, we were informed by the caretaker that the place is incorporated and rules have been drawn up looking to the keeping of the district in a sanitary condition, the house garbage is collected regularly, the closets are all earth closets and are emptied twice a week. The water is supplied chiefly from wells situated on the lake front and sunk in the gravelly bluff on which the cottages stand.

At one point where there are an hotel and 31 houses the situation is not so satisfactory, the hotel with one cesspool allowing a portion of its contents to be absorbed by the earth, and the other to empty itself in the gravel some distance away, and the cottages each with a cesspool, all on an elevation above the springs found on the shore some feet below are a menace to the purity of the same. The sanitary conditions here are in marked contrast to those found at Sturgeon Point, which are simple and inexpensive.

Recommendations.—In a report like this it is not our purpose to particularize, that is a matter which must be dealt with separately. Generally speaking we would suggest as follows:

Considerable difficulty must always exist in arriving at any uniformity chiefly from the fact that so many townships authorities hold jurisdiction over the lakes. With some system which permitted the employment of one sanitary officer, directed by a local board of health, directly interested in maintaining the lakes in the best sanitary condition, much more could be hoped for the future, and where it is at all possible we would advise the securing of incorporation on similar lines to those at Sturgeon Point.

Hotels and Boarding House Sewage.—The hotels and boarding houses at present without a system of sewage consisting of septic tank and sub-surface tiles should be required to instal the same. Earth closets and cesspools should be discontinued, and all closets made to connect with a sewage disposal system. In those cases where the drainage is



into a tank without any further land treatment all sewage should be disposed of by sub-surface tiles where practicable.

Water Supply.—The intake should be removed as far as possible from the site of the sewage disposal, and certainly where it is impossible to provide for treatment other than by the septic tank, care should be taken to filter the water. This could be done most efficiently and certainly economically by slow sand filters.

Private Houses. — Where the conditions will permit householders are recommended to provide the septic tank system, and where a number of houses are adjacent to each other, and the formation is favorable, this might be done in a joint system, as for instance at Beaumaris. Closets overhanging the water must be discontinued at once, and in their place if the septic tank cannot be introduced, either from natural, financial or other reasons, such for instance as the want of a system of water works, then the dry earth closet should be substituted, care, however, being taken that the same is regularly cleaned out.

Kitchen and Other Slops. — These should be run off into a tank or receptacle where septic action could take place and then distributed, preferably by tiles in the land.

Garbage Generally.—The accumulation of garbage of all kinds is a matter deserving of careful attention, for nothing becomes an eyesore and a nuisance sooner than an accumulation of vegetable, animal or other waste material, and where it is not possible to arrange for the removal at least bi-weekly of the same, the regular cremation of such material should be required at least twice a week, and also at the end of the season on the closing up of the house

Public Conveniences.—Owing to the large number of Summer tourists, conveniences for both sexes should be placed at Gravenhurst, Port Carling, and Port Sandfield, where the traffic is often very much congested. The hotel guests are very much inconvenienced and the proprietors put to unnecessary expense, in the condition things are at present.

Towns and Villages. — Such municipalities should consider ways and means to tidy up their streets and lanes, adopt rules for the collection and disposal of garbage. Where wells are in use they should be periodically cleaned out and the tops so protected as to prevent the possibility of infection from the surrounding surface—and samples should be regularly taken and forwarded to the laboratory for examination. As barns and stables are often a source of pollution to wells and also become public nuisances, strict inspection should be maintained over them, and when at all possible a system of public water supply and sewage should be introduced. Where such is not feasible hotels and large houses should adopt the septic tank system for the disposal of sewage. The endeavor of all should be to conserve the good gifts that nature has provided in these two beautiful health resorts, by preventing the pollution of the water and by the economic removal or destruction of all waste material which accumulates consequent on man's temporary habitation of the districts.

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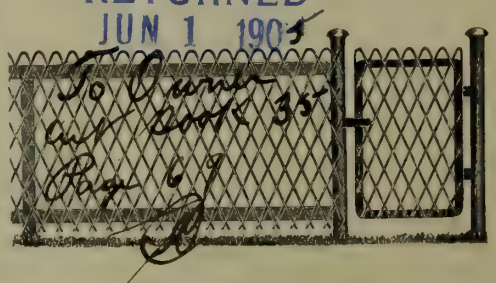


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THE attention of the trade is called to the new Crimped Diamond Fencing, which the B. Greening Wire Co. are putting on the market. For a light, strong, durable fencing this is probably the best value the trade has seen for some time. Numerous inquiries have been made for a cheap, neat and ornamental lawn fence, and this new line is certain to meet the popular demand. The fencing is usually erected with wood posts and scantling which are not supplied with the fence, it being shipped in



Crimped Diamond Mesh Fencing.

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TWO BRANCH WAREHOUSES.

Mr. Joshua Peters, of the Record Stove & Foundry So., Moncton, N. B., was in Toronto this week while on his way home from the Pacific coast. During his trip Mr. Peters completed arrangements for the establishment of branch warehouses at Calgary and Vancouver. At the Dominion Exhibition at Winnipeg last year Mr. Peters had personal charge of an excellent exhibit of the Record Stove & Foundry Co.'s lines. The success of the exhibit was such that a warehouse was opened in Winnipeg and an excellent connection from that city to the coast made. Now the company have branches in every province of the Dominion.

CANADA WELL ADVERTISED.

An enterprising piece of advertising was done recently by D. Morrice, Sons & Co., Montreal, who bought 50 copies of the "Classified Articles List of Industrial Products of Canada," and sent them by registered mail to business connections in all the leading business centres in Australia, New Zealand and Australasia. The book is published by the Manufacturers' List Co., Montreal, and the total weight of the registered mail bag containing the 50 copies was 113 pounds.

H. S. HOWLAND, SONS & CO. LIMITED

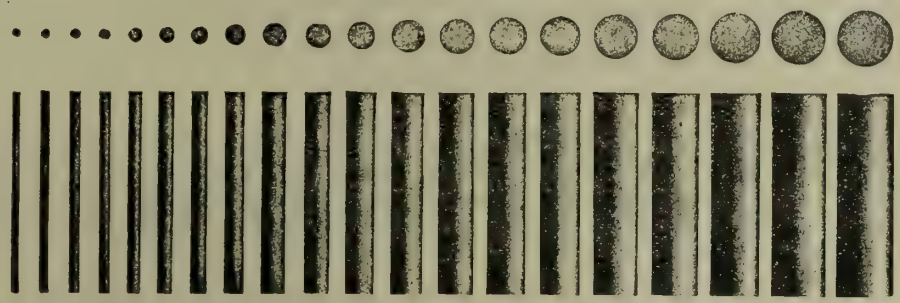
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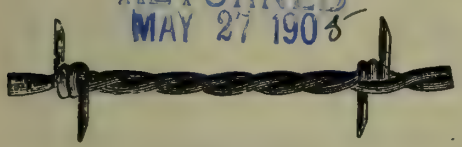
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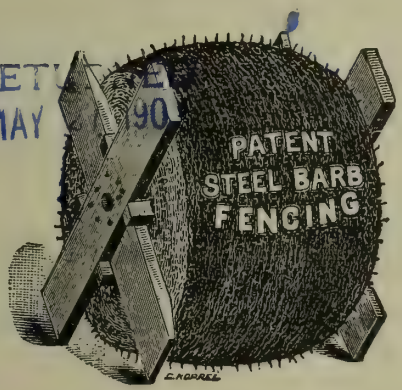
Copper Wire
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Stove Pipe Wire

To Cancel Book
Page 40



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2 Points, 5 in. apart
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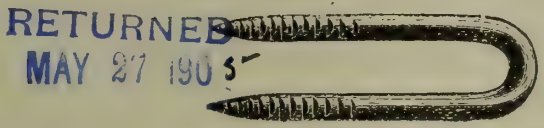
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4 Barb, 4 in. apart
4 Barb, 6 in. apart
Galvanized



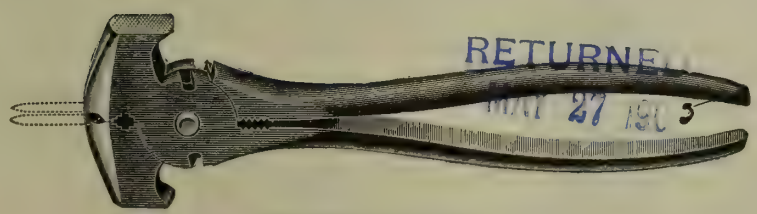
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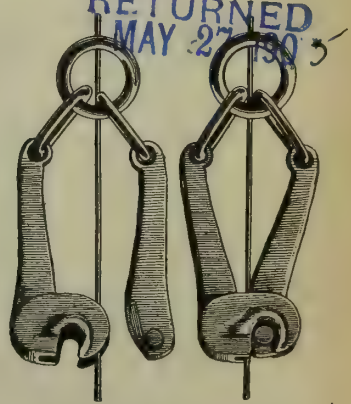
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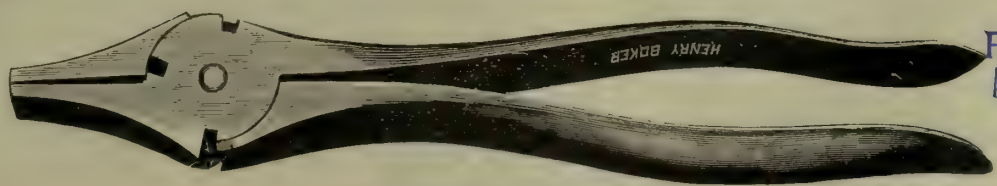
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Article IV.

STEAM HEATING.

IN steam heating, as in other works, where existing conditions have to be considered, and have to a greater or lesser extent to be complied with, the fitter must use judgment in choosing from among the many available systems, the one which will best suit the building with which he has to deal.

All economical steam heating systems have, as a fundimental principle, the converting of the water in the boiler into steam, which, being forced into heating surfaces placed in various sections of the building is condensed or reconverted into its normal condition—water— and returned, by gravity or otherwise, to the boiler.

There are many ways of accomplishing the desired result in this latter respect, but as was suggested, the character of the building must be the contractor's guide as to what system he will adopt.

It is the intention, however, to deal with the various systems from time to time, in order that the reader may become familiar with the essential features of each, and so be in a position to deal intelligently with the subject whenever it comes up for consideration, and, that being our object, before taking up the question of quantities and dimensions, we will deal with each system of piping in turn, and will consider first what is known as the "single pipe gravity system" is becoming very popular.

The two-pipe gravity system is one in which there are two pipes connecting with the boiler and every radiator in the building, viz., a steam or "flow" and a return pipe, the object being to have a pipe whose only function is to supply the steam from the boiler to the radiator and another to receive the condensation therefrom and return it to the boiler.

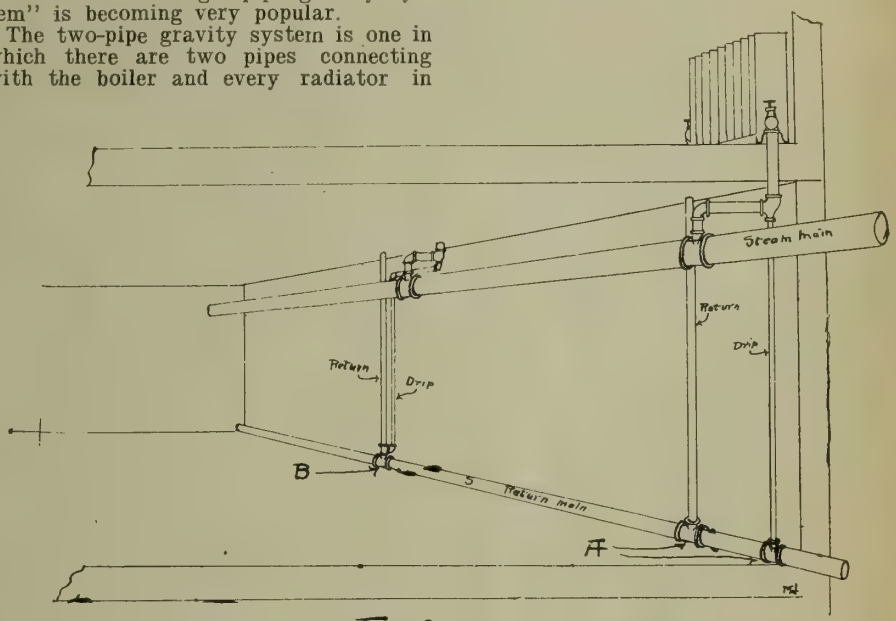


Fig 2.

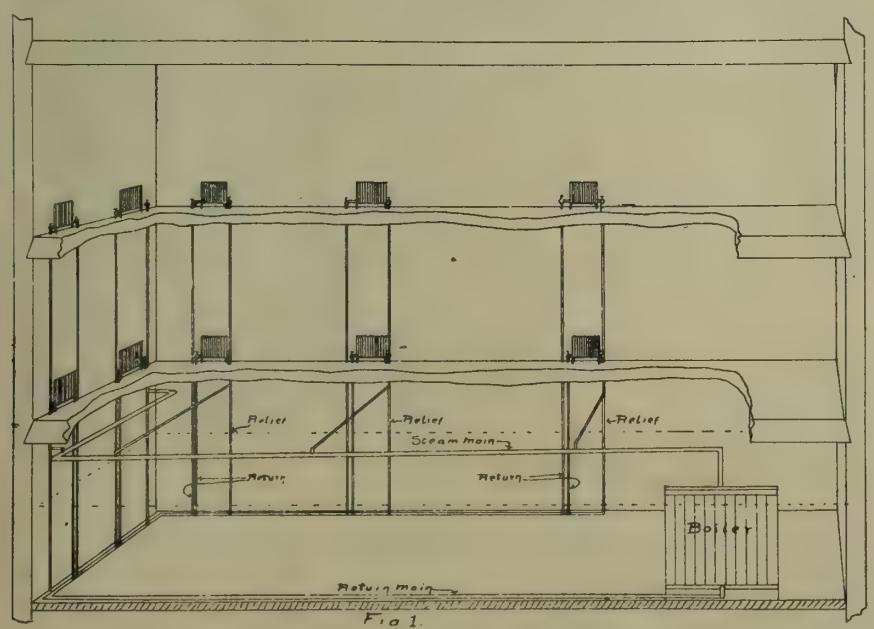


Fig 1.

known as the "two-pipe gravity system," which is, perhaps, even to-day most commonly used, although what is

That being the object, it is essential that the main steam pipe must be so graded as to prevent the accumulation of water at any point, and indeed this is essential in any part of any system, where there is supposed to be a free flow of steam, because steam coming in contact with a cooler body of water causes the "pounding" or "water hammer," with which all steam-fitters—and not a few of their unfortunate clients—are familiar.

It is, therefore, necessary that the highest point of the steam main in such a system as we are now discussing should be above the boiler, and that there must be a gradual decline in the level from there to the extreme end of the system, at which point a "relief" or drip pipe is connected to the return main, so that any steam which has condensed in the main may pass down to the normal level and so leave a continuously free passage for the flow of steam.

In addition to providing a proper fall in the steam main, it is also necessary to grade all other horizontal connections in a like manner, so that, for instance, a branch from the steam main to a riser several feet away may be properly drained at all times, and as, in the system under discussion, it is not good practice to have the condensation flowing back to the main steam pipe against the current of steam going in the opposite direction, the latter having the tendency to "pile" the water up and so cause "water hammer," it will be obvious that the drip or "relief" must be taken off at the point farthest away from the steam main.

Fig. 1 shows roughly a small, two-pipe gravity system, with a cast iron sectional boiler, and the dotted lines indicate the probable height of the water line, not only in the boiler, but also in

every return and drip pipe throughout the syetem.

It will be noticed that every radiator has a separate return pipe, which connects to the main return pipe below the water line, thus preventing the passing of steam through one radiator and up through the return pipe to another, a condition which, in most cases, prevents the radiator so affected from ridding itself from condensation, the presence of which in excessive quantities will cause trouble.

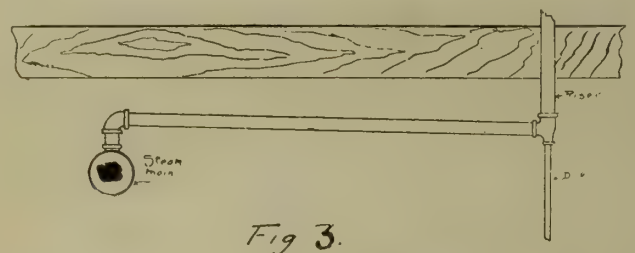


Fig 3.

The steam, however, may be conducted to a number of radiators through one pipe as shown, the risers to be gradually reduced in size as they rise through the various floors, and to be so connected as to provide for expansion and contraction.

The method of making the necessary connections in the basement are very well illustrated in Fig. 2, which shows the steam supply to the radiators rising off the top of the steam main and having a slight fall to the point where it rises to the radiator; from the latter point a drip or relief pipe is carried down to the return main and is either connected separately as at "A" or to the return pipe from the same radiator as at "B," the latter method being preferable, especially where the return main is large, as in such a case the large fittings are expensive as, of course, is also the cutting and fitting of large pipe.

Fig. 3 shows the ordinary method of taking off branches for steam risers; that is, instead of taking the connection off the side of the pipe as, perhaps, would at first appear to be the proper thing to do, the T is turned up, and a nipple and elbow used, the object being to provide for the expansion in the main, which, in moving forward or back, may have the advantage of the "spring" afforded by the pipe between the elbow above the main and the T on the foot of the riser, but, if necessary, may also turn on the threads of both fittings.

Fig. 4 shows the proper method of taking off branch connections where the steam main is a very long one, or where there is a good deal of condensation in it; in this case the steam main will be thoroughly drained into every branch connection, which, having a fall to the riser, will allow the condensation to pass down through the "drip" to the return main in the manner before referred to.

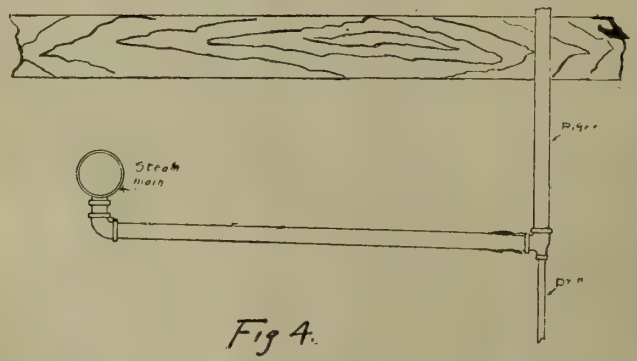


Fig 4.

PLUMBERS AND CATALOGUE HOUSES.

EVIDENCE that the demand for plumbing goods in the suburban field is being cultivated is shown in the reported sales of plumbing material by catalogue houses, says the Metal Worker. It is shown also in the efforts of these establishments to secure goods with which to fill their orders. The development of their business is the result of their bringing to the attention of those who do not naturally come into contact with the plumber the goods which otherwise would be purchased from him. Some look upon this encroachment on the field of the plumbing trade as one of the natural courses of the times, and feel no necessity of making any effort to offset it. The danger of such an attitude is clear, and is by no means overlooked by those who have the best interests of the whole trade at heart. Those who are alert to protect the trade and who study conditions to forecast the future and to prevent the loss of either prestige or profit are now alive to the menace; they are pointing it out to those who will be seriously affected should no effort to meet it be made. Some have expressed the opinion that a more strict adherence to old policies is sufficient without opening up new subjects, but they evidently are not aware of what such a course means. The plumber has always been a progressive tradesman, but the fact that the modern plumber must be more of a merchant than a mechanic brings with it the need of sagacious foresight to deal successfully with the new problems that an advancing civilization and commercialism present.

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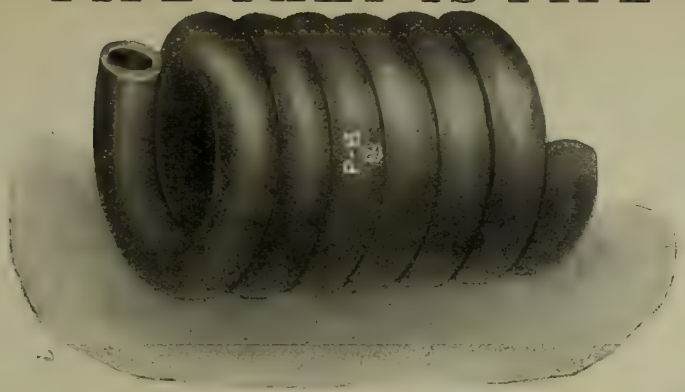
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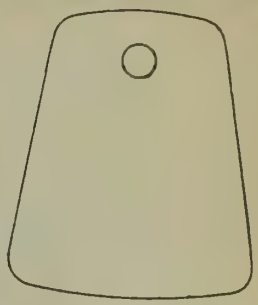
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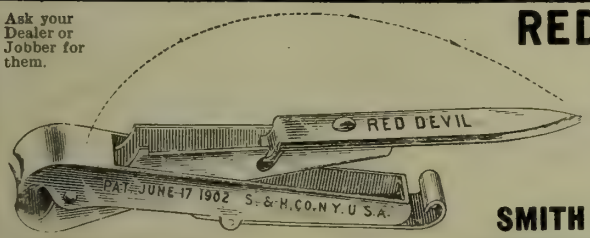
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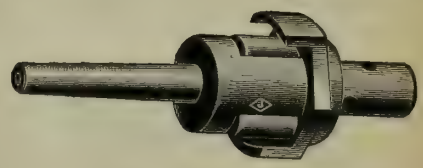
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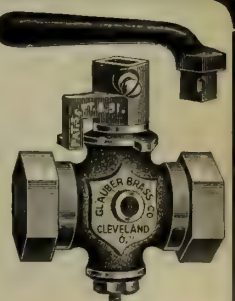
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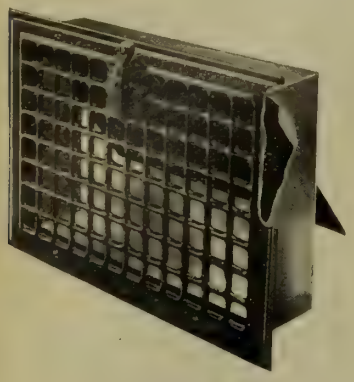
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AN IMPROVED LAMP BULB.

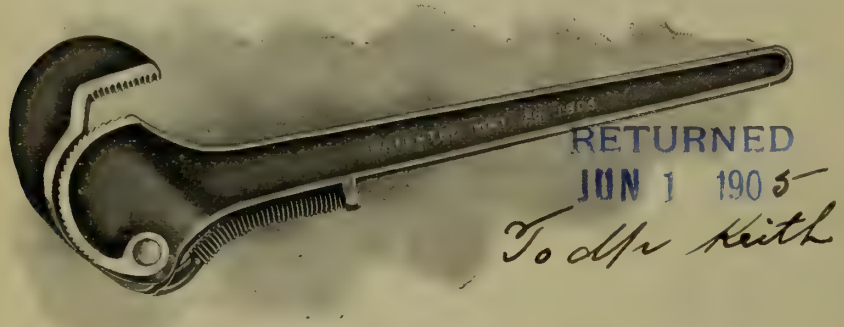
David Campbell, electrician, of Vancouver, received last week a Canadian patent on an improved lamp bulb, the construction of which is designed to afford a better reflecting surface for the light from the filament. This result he attains by depressing one side of the bulb within the other part, and by carrying his filament around the inwardly projecting portion. The inwardly depressed portion can be silvered to afford a reflecting surface and as the silvered portion will be exposed to the outside air it will not become excessively heated.

THE LEVY PIPE WRENCH.

The wrench herewith illustrated has many novel features, some of which are not clearly indicated in the cuts. Both jaws of the wrench are deeply serrated, and the upper jaw is automatically held in its closed position by the compression of a spring on a hinged extension rod at the back of the wrench. The principal novelty of the wrench lies in the fact that it can be operated by one hand, both as to its grasp and its release. It is simply hooked over the pipe with sufficient pressure to overcome the force of the spring, and the relation of the upper and the lower jaw is such that it grips the pipe automatically, holding it firmly with every operative stroke and releasing it automatically with the return. When the work is finished, to release the wrench from its grasp it is only necessary to give a quick backward movement. The sale of the wrench is in the hands of M. K. Northam, Monadnock Block, Chicago, Ill.

NEW JOBBING FIRM.

A NEW jobbing house is now catering to the heating and plumbing trade in Ontario, the company being known as R. J. Cluff & Co., and being composed of Mr. R. J. Cluff, for 17 years with the Dominion Radiator Co., latterly as assistant manager, and W. J. Cluff, who, during the past ten years, has represented the same company in the east. Fine premises have been secured at 50 and 52 Lombard street, next door to the Ontario Lead and Wire Co.'s shipping offices. Arrangements have been completed, however, for the erection of a new modern warehouse on Sheppard street for the use of the new company.



Levy Pipe Wrench.

The new company have been appointed exclusive sales agents for Ontario for Warden King & Son, of Montreal, manufacturers of the "Daisy" hot water boiler, and will also handle all other lines manufactured by the above firm, including cast iron steam and water fittings, soil pipe fittings and stable fittings, together with a complete line of iron pipe, malleable fittings, steam brass goods and steamfitters' supplies of all kinds.

The United Brass Mfg. Co., Cleveland, Ohio, have also appointed Cluff & Co. as exclussive agents for their well-known line of goods, while arrangements are under way to carry a line of radiators, it being the intention of the new firm to make a specialty of heating supplies.

The wonderful development of the heating and plumbing trade in Ontario seems to warrant the establishment of the new wholesale and Hardware and Metal wishes them every success.

PLUMBING NOTES.

R. W. Harrison, Toronto, will accompany John McKinley, Ottawa, and B. Noble, London, as delegates from the Canadian national body to the National Master Steamfitters Convention at Atlantic City, June 12 to 15.

Fred Armstrong and W. J. Walsh will be accompanied by W. H. Meredith as delegates to the National Master Plumbers' Association Convention at Atlanta, Georgia, on June 6, 7 and 8. The trio will be accompanied by their wives.

The date of the convention of National Association of Master Plumbers at Winnipeg is not yet decided owing to the delay in securing favorable terms from the railway companies. The date will be about July 20, during the Winnipeg Exposition.

Toronto and Buffalo plumbers and steamfitters will fraternize at Grand Island on Saturday, June 17, the former having been challenged by the latter to play baseball, bowling (alley) and bowling on the green. The challenge has been accepted and the Buffalo men will have to practice overtime to hold their own.

THE NATONAL ASSOCIATION OF MASTER PLUMBERS AND STEAM AND HOT-WATER FITTERS OF CANADA.

President—Robt. Ross, Toronto.
Vice-President—A. J. Hammond, Winnipeg.
Secretary—J. A. Gordon, Montreal.
Treasurer—F. G. Johnson, Ottawa.

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Manitoba—James Mold, Winnipeg.
British Columbia—James Coughlin, Victoria.

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Specialties for the Paint Trade

¶ During rush and hurry time in Paint and Varnish trade, you have many enquiries for this and that and the other thing.

¶ **Ramsay's Paint Specialties** are fully opened up and explained in our complete catalogue. Keep it handy. It will save you trouble when looking for things you want. Don't forget———

¶ **Ramsay's Complete Catalogue** for the rush at the painting season.

A. RAMSAY & SON COMPANY,

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TRADE PENBERTHY MARK.

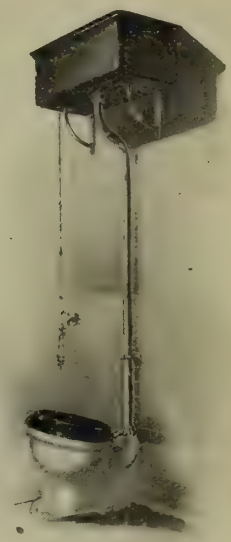


AUTOMATIC INJECTOR

¶ The reputation of a hardware man depends on the quality of his goods. If he stocks Penberthy Injectors a wise customer knows that quality counts in that store. The "just as good" song is a thing of the past both in buying and selling—besides it's a loss of valuable time.

IT WILL PAY YOU WELL

to handle the NATURO Water Closet and Seat



This has been the experience of many other Plumbers and there is every reason why it should be yours also.

The NATURO Closet takes at sight and people want it as soon as they see for themselves why it is better than any other kind.

Of course it is something new and needs a little introduction but your customers will need no persuasion after you explain the principle upon which it is constructed.

The NATURO Closet is more sanitary, cleaner and far more convenient.

It is made in three styles, with high or low tank as desired.

It is cheaper in the long run than the old-fashioned closet because it is the best, and one sale in your vicinity will advertise you wonderfully.

If you want any help introducing these, you may command us.

Send for the NATURO Book

The NATURO Company

C. H. MUCKENHIRN, President.

Salem, N.J.

Plumbing Markets

QUEBEC.

Office of HARDWARE AND METAL,
232 McGill street,
Montreal, May 26, 1905.

LOCAL supply houses report a brisk business. Orders, well assorted, are arriving more frequently from master plumbers throughout the province. The extensive building operations locally have caused a good demand and at present local dealers find it somewhat difficult to ship all orders on time. The installation of numerous water works systems throughout the Dominion, but especially in the west, has caused a heavy increase in the demand for pipe. It is reported that the rolling mills are behind in supplying the wholesale houses with stock, with which they may be able to slip all orders according to instructions. But as this delay is generally experienced every year no serious complaint has as yet been heard. The market in general is firm, with no tendency for an advance.

Range Boilers—We quote as follows: Iron clad, 30 gallon, $6, and 40 gallon, $7.50 net; copper, 30 gallon, $22; 35 gallon, $24; 40 gallon, $28. The discount on copper boilers is 15 per cent.

Lead Pipe—Lead pipe has a good demand from the cities and larger towns in this province on account of a better class of work. Prices are firm with the tendency to remain so for some time. We quote: Discount 30 and 5 per cent. f.o.b. Montreal, Toronto, St. John, N.B., and Halifax; f.o.b. London, 15c. per hundred lbs. extra.; f.o.b. Hamilton, 10c. per hundred lbs. extra.

Iron Pipe Fittings—Conditions on this market continue unchanged. Discount on all sizes of nipples up to six inch, 67 1-2 to 70 per cent.

Iron Pipe—A delay similar to those of former years is prevalent on this market owing to the inability on the part of the rolling mills to keep up with the demand. The firmness of the price of pig iron has caused the price of iron pipe to become firm also, but as yet there is no indication which would point to an advance. Our quotations are as follows: Standard pipe, in lots of 100 feet, regular lengths, 1-4 inch, $5.50; 3-8 inch, $5.50; 1-2 inch, $8.50; 3-4 inch, $11.50; 1 inch, $16.50; 1 1-4 inches, $22.50; 1 1-2 inches, $27.00; 2 inches, $36.00; discounts on black pipe, 1-4 inch, 62 1-2 per cent.; 3-8 inch, 62 1-2 per cent.; 1-2 inch, 72 1-2 per cent.; 3-4 inch, and upwards, 74 1-2 per cent. Discounts on galvanized pipe: 1-4 inch, 47 per cent.; 3-8 inch, 47 per cent.; 1-2 inch, 62 per cent.; 3-4 inch and upwards, 64 per cent. Extra heavy pipe of 100 feet lots are quoted as follows: 1-2 inch, $12.00; 3-4 inch, $15.00; 1 inch, $22.00; 1 1-4 inches, $30,00; 1 1-2 inches, $36.00; 2 inches, $50.00. The discount for black pipe is: 72 1-2 per cent., and for galvanised, 61 per cent.

Soil Pipe and Fittings—There is a good demand on this market. During the week some large orders have been received from plumbers residing in the country, which tends to show that extensive operations are being carried on in the country as well as in towns and cities. This speaks well for future trade, and local supply men are anticipating a good demand during the whole of the coming season. We quote as follows: Standard soil pipe, 50 per cent. off list. Standard fittings, 50 and 10 per cent. off list. Medium and extra heavy soil pipe 60 per cent off. Fittings 60 per cent. off.

ONTARIO.

Office of HARDWARE AND METAL,
10 Front street east.
Toronto, May 26, 1905.

SATISFACTORY business is reported by local jobbers, who have about as much business as they can handle. The activity is likely to increase until June, and then continue at the tension point all Summer, judging by the trade done during the Spring months. Orders are well assorted for all lines and are coming from both city and country buyers, whose trade appears to be highly satisfactory. There is every prospect of this being one of the fattest years in the history of the plumbing fraternity in Canada. No changes are reported in prices, all being firm as a result of the active demand.

RETURNED
JUN 1 1905



Vulcan Chain Pipe Vise.

Lead Pipe—The demand remains steady, and large quantities are being purchased, quotations continuing as follows: Lead, 7c.; lead waste pipe, 8c.; discount, 30 and 5 per cent.

Soil Pipe and Fittings—Sales are reported large at firm prices. We quote: Medium and extra heavy pipe and fittings, 60 per cent.; 7 and 8 inch pipe, 40 and 5 per cent.

Iron Pipe Fittings—Jobbers report a satisfactory trade, prices continuing strong. Our quotations are: Malleable fittings 20 to 25 per cent. for American and 35 per cent. for Canadian; cast iron (standard), bushings, 65 per cent.; headers, 60 per cent.; flanged, unions, 60 per cent.; lipped unions, 60 and 5 per cent.; malleable bushings, 60 per cent.; nipples up to 6 inch inclusive, 75 per cent.

Copper Range Boilers—A large volume of business is reported at firm prices. The discount of 15 per cent continues.

Galvanized Iron Range Boilers—Orders are being received in large quantity. Quotations are unchanged as follows: 12 gallon capacity, standard, $4.50; extra heavy, $6.50; 18 gallon, standard, $4.75; extra heavy, $6.75; 24 gallons, standard, $4.75; extra heavy, $6.75; 30 gallon, standard, $5; extra heavy, $7.50; 35 gallons, standard, $6; extra heavy $8.50; 40 gallons, standard, $7; extra heavy, $9.50; 52 gallons, standard, $11; extra heavy, $14; 66 gallons, standard, $18; extra heavy, $20; 82 gallons, standard, $21; extra heavy, $24; 100 gallons, standard, $29; extra heavy, $34; 120 gallons, standard, $34; extra heavy, $40; 144 gallons, standard, $47; extra heavy, $55.

Iron Pipe—Buying is active, large orders being frequent. We still quote: Black, 1-4 inch, $2.03; 3-8 inch, $2.06; 1-2 inch, $2.29; 3-4 inch, $2.87; 1 inch, $4.12; 1 1-4 inch, $5.62; 1 1-2 inch, $6.75; 2 inch, $9. Galvanized, 1-4 inch, $2.86; 3-8 inch, $2.89; 1-2 inch, $3.14; 3-4 inch, $4.02; 1 inch, $5.77; 1 1-4 inch, $7.87; 1 1-2 inch, $9.45; 2 inch, $12.60.

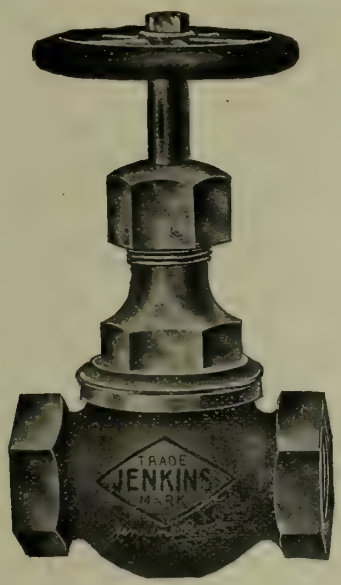
Solder—Prices continue unchanged with sales large. Our quotations are as follows: Bar solder, half and half, guaranteed, is quoted at 19c.; wiping solder at 17 3-4c., and refined 18c.

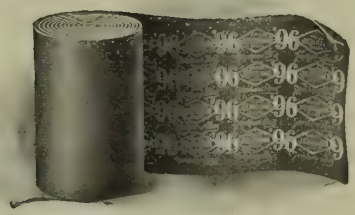
Enameled Ware—Demand for Canadian ware is fully equal to the supply, in fact a larger output could readily be marketed if produced. We quote as follows: Baths, rolled rim, 5 feet, 2 1-2 inch rim, 1st quality, $17.50, special, $15.50; 3 inch rim, 1st quality, $19.00, special, $17.00; 5 1-2 feet, 2 1-2 inch rim, 1st quality, $19.00, special, $15.50; 3 inch rim, 1st quality, $20.50, special, $18.50. Lavatories, discounts 30 to 40 and 5 per cent. Sinks, 18 x 30 inch, flat rim, 1st quality, $2.45; special, $2.

VULCAN CHAIN PIPE VISE.

J. H. Williams & Co., Brooklyn, N. Y., are introducing the Vulcan chain pipe vise, which is illustrated herewith. The vise is claimed to be unbreakable, and it is also compact, requiring almost no space on bench or post; the action is rapid. A quarter inch of chain drop or a quarter turn of screw and the strength of a child will do the work. The grip is positive, non-crushing and always renewable by simply filing the teeth. The chain hugs the pipe half way around. The material is all wrought steel, the parts all warranted are interchangeable.







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WRITE US YOUR REQUIREMENTS

THE CANADA METAL COMPANY

WILLIAM STREET, - TORONTO

HEATING A TOWN BY ELECTRICITY.

DAVOS, a town in the Swiss Alps, is unique on account of the fact that it is heated entirely by electricity. It is famous for its dry, healthful climate, and in the Winter season thousands of tourists and health-seekers sojourn there. It is situated at a high altitude, so that its Winters are cold, but dry and invigorating, and its air so pure that two great sanitariums are occupied by people in search of health and recreation, or both. The question of heating the town of Davos and its two important sanitariums vexed the local authorities for many years. The fear of contaminating the pure, dry air of the mountain resort with smoke and ashes finally led them to adopt electricity for all purposes—heating, cooking, lighting and power. There is a fixed population of about 3,000 to-day, and a visiting population of nearly as many more. The question of the best form of heat for the sanitarium patients was also considered from a medical point of view. The physicians condemned gas and coal stoves on account of the unhealthy odors emitted by them, and steam heat for the houses and hotels was considered unhealthful also. Electricity was finally adopted as the best for all concerned, provided that it could be obtained at a reasonable cost. The electricity for heating the town is supplied from power-houses on the two streams, Landwasser and Albula, situated nearly ten miles away, where there is a fall of nearly 1,300 feet. There is sufficient water-power on these two streams to heat and light the whole town, and the final completion of the plant has enabled every inhabitant to use electricity for every household necessity. The town covers a district about two miles long and half a mile wide. In this space the large hotels and sanitariums are grouped.—American Electrician.

A NEW GAS SHADE.

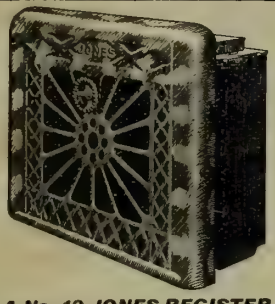
The Cremo inverted gas burner is a novelty which should soon become a necessity. Anyone who has read with the light of an ordinary gas light, and has had to put up with the patchwork of shadows and light which is the necessary complement of any ordinary fixture, will hail with pleasure the new device. By being inverted, it is absolutely free from shadows, and it throws a light of the radiance of an electric lamp. Its decorative appearance will commend it to those who aim at having a pretty house. Gowans, Kent & Co. handle it.

An electric railway from London to Guelph is proposed.

We make Electric Fixtures, Sockets, and Cut-Outs

Munderloh & Co

Electrical Supplies of all kinds. MONTREAL.



A No. 12 JONES REGISTER
For second floor room. Bottom Collar fits 3¼x12 or No. 8 Wall Pipe.



A No. 15 JONES REGISTER
For first floor rooms. Bottom Collar, 7x14. These Registers are fitted with a Top Collar which fits 3¼x12 Wall Pipe or a plate when used for heating one room on the first floor.

ADVANCED METHODS OF WARM AIR HEATING

Is the title of our latest catalogue which illustrates and describes the

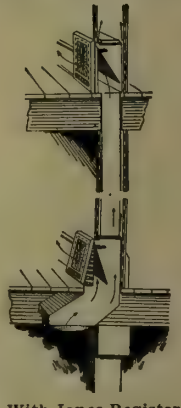
JONES SIDE-WALL REGISTERS, AND THE JONES SYSTEM OF WARM AIR HEATING

These Registers have been on the market since 1901 and are used by between five and six thousand of the best furnace dealers in Canada and the United States.

By the use of Jones Registers the efficiency of the furnace is **increased**; at the same time, the cost of installing furnace is **reduced**.

BE UP-TO-DATE AND USE THE BEST

There is included with each Jones Register, the register which is also a border, a double register box, a ventilator and a deflector. Wall pipes are two feet shorter and but one-half the number of basement pipes ordinarily used are necessary.



With Jones Registers but one-half the number basement pipes are necessary.

Manufactured by THE JONES REGISTER CO. 295 College St., Toronto, Ont.

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THE UNITED STATES REGISTER CO., LIMITED

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It Leads Them All



THE EMPIRE QUEEN RANGE

You would the more readily believe this if you were in our shoes, and saw the testimonials we receive. There are other stoves, but

THE EMPIRE QUEEN RANGE

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OWEN SOUND, ONTARIO. Limited

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The Kind the Engineers Ask For



The Renewable Disc Features of Fairbanks Valves make them a favorite with the Engineers. We furnish Hardware Dealers who handle Fairbanks Valves with a large enamelled display stand to exhibit our Valves on. It is nearly three feet high and an ornament to any store.

WHY NOT HANDLE OUR VALVES AND GET ONE?

THE CANADIAN FAIRBANKS CO. LIMITED

Montreal. Vancouver.
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Wrought Steel Registers

Standard Sizes, All Finishes
Perfect Operating Device
Unusually Large Air Space
For Sale by Leading Jobbers

HART & COOLEY CO.
NEW BRITAIN, Conn., U.S.A.



H. & C., No. 100

NEW FORM OF ARC BURST.

A new form of arc-burst, as is shown by the accompanying illustration, has been placed on the market by the Benjamin Electric Manufacturing Company,

RETURNED
JUN 1 1905



Something New in an Arc-Burst.

of Chicago, Illinois. This arc-burst is especially adapted for the use of art galleries, restaurants and public buildings. It is constructed from a Benjamin wireless cluster and consists of a Benjamin cluster with a three-foot stem, a crow's foot, canopy, shades, shade-holders, and lamps. The standard finish of the fixture is polished brass, but other finishes may be had if desired. The fixture is finished in the standard sizes, namely, four light, 130 c.p., 270 watts; five light, 155 c.p., 220 watts; six light, 180 c.p., 370 watts.

A NEW CANADIAN BRANCH COMPANY.

The announcement has been made that the J. E. White Co., of New York, who are among the largest electrical machinery builders in New York, have formed a Canadian company, with a capital of $1,000,000, and will erect a large plant in Montreal.

Quite a few Montreal capitalists have also become identified with the Canadian company of the big American concern, which will do business in all parts of Canada.

NEW IDEA IN HOME BUILDING.

A six-suite apartment house, which is to be built in Winnipeg for the exclusive use of the owners, is one of the latest building enterprises. Tenders are now being invited for a block that will comfortably house six families, two on each floor, making a three storey building, with basement. The basement will be arranged for janitors' and servants' quarters, storage rooms and laundry. A doctor's suite, with office, waiting room, study, etc., will also be laid out in the basement.

NEW EXHAUST HEAD.

The accompanying illustration shows an exhaust head made of cast iron in which the steam enters its lower end and discharges at the top freed from oil and water. The helical worm, cast in the lower end, compels the steam to gyrate in its passage through the head, developing centrifugal force which hurls the



Swartout Exhaust Head.

water globules through an annulus, in hood, from which it is dripped to the proper receptacle. The water and oil are entrapped and cared for without back pressure. It is known as the "Swartwout," and is made by The Ohio Blower Co., Cleveland, Ohio.

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WE MAKE ALL LINES

All Cast
Modified Steel
All Steel

Quality everlastingly the best
Prices everlastingly the bottom

OUR
ALL CAST Are time tried and worth proven.
MODIFIED STEEL The novelty success of 1904.
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THE FERROSTEEL CO., 34 Michigan St., CLEVELAND, OHIO

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Write for Catalogue. It will pay you.

SANDERSON-HAROLD CO., Limited
Manufacturers of
Refrigerators, Screen Doors and Windows
PARIS - - ONTARIO

How the Oxford Boiler saves money.

Any boiler will burn coal and generate heat in the fire-pot.

It only depends on your draft, size of fire-pot and your chimney, how great a mass of heat you can generate.

But it is not the amount of heat you generate in the boiler that makes a successful heating system. It is the amount of heat you use.

There are millions of horse-power in the Falls of Niagara but it is of no use until it is harnessed.

That is the point—harness and use the heat your boiler generates. In most boilers a large percentage of it is lost up the chimney.

We have succeeded in designing a boiler that holds and uses more of the heat generated in the fire-pot than any other boiler on the market.



The sides of the fire-pot of the Oxford Boiler slant inwards so that instead of the heat sliding up through the flues it sharply impinges against these inclined walls. As an addition to this, in the first water section nearest the fire the flues are bell-shaped so that a very great surface is exposed to the direct rays of the fire.



This construction makes the Oxford Boiler a most powerful heater.

It saves fuel because a much smaller fire keeps the water at a greater temperature because every bit of the heat generated by it is used.

One reason why an Oxford Boiler lasts longer than any other is because it is all metal. There are no rubber, leather or composition washers in it. Every connection is made by our unleakable, steel push nipples.

We want to tell you all about the Oxford Hot Water Heating Apparatus. Won't you write a post card for our illustrated book? It's free.

The Gurney Foundry Co., Limited

TORONTO WINNIPEG VANCOUVER

The Gurney-Massey Co., Limited, Montreal.
The Gurney Standard Metal Co., Limited, Calgary, Alta.

Bolton, Fane & Co.

98 Leadenhall Street, London, E.C., Eng.

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In all qualities and sizes

Bessemer Coke	"Lofoden" Brand
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Best Charcoal	"Cardigan" Crown Brand
Staffordshire Bar Iron	B.G. Crown Brand
Galvanized Sheets	"Pelican" and "Ostrich" Brands

Boiler Plates, Rails, Fishplates, &c., &c.

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Selling Agent for Canada, 210 St. James St., MONTREAL

TELEPHONE, MAIN 3893

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Firms or individuals open for agencies in Canada or abroad may have their names and addresses placed on a special list kept for the information of enquirers in our various offices throughout Canada and in Great Britain without charge.

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Business Manager

HARDWARE AND METAL

Montreal and Toronto.

Be on Your Guard

Be on your guard when stocking up your store of rifles, for there are some goods whose reputation for reliability has not been won by being **reliable.** The reputation of

THE HAMILTON RIFLE

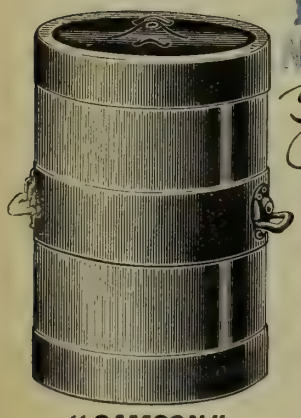
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To Quinn Cut Book 43 Page 26

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TAXING MANUFACTURERS' AGENTS.

QUEBEC is the latest province to endeavor to raise funds for its depleted treasury by imposing taxes upon industry, the action now being proposed in Quebec being even more farcial than the recent British Columbia legislation providing for an annual tax of $100 upon commercial travelers representing houses not having branches in that province.

The proposition now before the Quebec Legislature is to mulct manufacturers' agents who sell on commission the goods of manufacturers or companies which have no place of business in the Dominion, the sum of $300 per year as a licence fee. In the opinion of Provincial Treasurer McCorkill, the proposed Act will undoubtedly apply to those persons who, while they themselves may have a place of business in the province, sell the goods of English or Canadian firms on commission; and furthermore that the law will probably require a separate license fee. In the opinion of Provincial is the intention, however, to change the present reading to allow representatives of companies having a bona fide place of business in the Dominion to be exempt from the workings of the Act.

According to the Montreal Herald there are in that city nearly 1,000 persons occupying offices and selling on commission the goods of firms with no place of business in Canada. The number of such firms represented is probably 10,000 or more. A leading manufacturer's agent stated that if the proposed legislation had the effect ascribed to it, it would assuredly drive to Toronto almost the whole body of agents, and they would do business with their customers in Quebec by mail. It would be a hardship, and it would have the effect of transferring the balance of commercial power to Toronto, as they certainly could not afford to pay $300 apiece for their agencies.

Mr. Alex Gibbs, representing many well-known hardware and metal companies, says the tax is out of all proportion to the business done. It is necessary for an agent to have several agencies before he can make a living at all, and he has a lot of agencies himself on which he does not make $300 per year all told. Other agents would find it a great hardship to pay $300 per year out of the entire earnings from all their agencies. Foreign travelers would be able to evade the payment of the tax, but the agent who had an office could be made to pay without trouble.

Other representatives are as emphatic as Mr. Gibbs in their denunciation of the proposed law, and combined action will likely be taken to resist the measure.

The Ontario law governing the licensing of extra-provincial companies is a much more liberal one, it calling for the payment of a license fee of $100 annually from representatives of companies having a capital of $40,000; $160 if the capital is $100,000; $185 for $200,000, and $385 if the share capital is $1,000,000. According to the statute these fees are payable by the agent whether a stock or samples are carried, but it is the practice that if no stock is carried the payment of the fee is not pressed. Between 400 and 500 foreign companies pay the license fees annually, the majority of these being branch houses selling goods on commission. Many agents doing a comparatively small business, however, pay the fee voluntarily rather than be in the position of those who escape it, the latter doing business illegally and being unable to sue for the recovery of accounts.

Under the Ontario law travelers representing foreign houses are practically exempt, no effort being made to restrict their activities in any way. How different this is to the situation in British Columbia, where even the travelers from other provinces are held up for $100 per year and in Quebec, where the proposed restriction is $300 ?

The manufacturers' agents are justified in opposing the $300 fee in Quebec, as it is abnormally large, and is a clear discrimination against them. While their rents are small and their businesses not large enough to warrant their advertising on a large scale, they do business on a very narrow margin, and are a real benefit to the community in encouraging trade with foreign manufacturers, many of whom establish branch warehouses and factories after the agent has succeeded in developing a trade for their goods.

Later information received is to the effect that as a result of a protest from the manufacturers' agents, backed up by the Montreal members of the Legislature, Provincial Treasurer McCorkill has withdrawn certain clauses and reconstructed the whole Act, the Bill now reading:

"That for each license for a person not residing in the province to act as a commercial traveler by soliciting or taking orders for, or selling goods, wares or merchandise, other than intoxicating liquors, or by advertising or offering such goods for sale, by sample, catalogue or price list, for person, firm, or corporation having no place of business in Canada, three hundred dollars."

This law as it now reads may have a tendency to curtail the amount of sales of many lines of English and American manufactured goods, as a considerable number of the English and American manufacturers cannot, or will not, pay this tax. On the other hand it may have a beneficial effect, inasmuch as foreign manufacturers will now, if they wish to continue on the Canadian market in the Province of Quebec, be obliged to give agencies to Canadian business men who make a livelihood by being manufacturers' agents.

PLUMBING IN FARM DISTRICTS.

UP to the present time little attention has been given to the development of the plumbing trade amongst the farmers. This is possibly due in some measure to the fact that on the farm there are no plumbing regulations that the owner must conform to or restrictions that he must submit to, and common sense in a large measure governs the demands of the farmer and the method of supplying them. These conditions, however, should not be any obstacle to the development of considerable plumbing business, which if sys-

tematically attended to, will not only pay a good return, but will also result in the extension of the demand for plumbing among farmers until a shop can be occupied a considerable time each year in doing the work.

Many farmers have already taken steps in a direction that should ultimately aid the plumber. Not a few have arranged wind mills and tanks with piping for watering stock and similar purposes at the barn. The owner, realizing the value of such arrangements, has often caused the piping system to be extended into the farm houses as far as the kitchen. When this point has been reached it is only a short step to the bathroom and such other plumbing conveniences as would substantially add to the comfort of the farmer and his family. The shower bath included in the equipment of the farm building would give great satisfaction. In fact, the shower, or several of them, might be located where the corps of farm workers could enjoy them. When a farmer still uses the hand pump the task of inducing him to use more convenient devices should not be left to the wind mill man, but the plumber should devote some portion of his time and advertising to getting the farmer better informed of the desirability and expense of such additions in piping and fixtures. That plumber who in a prosperous farming community makes a display of a miniature farm outfit, with its buildings equipped with wind mill, tank, water service, pipes and system of house drainage, may reasonably expect to develop some trade in this field. The important question of disposing of the waste or sewage readily solves itself on a farm, as the cesspool may be used and, if made water tight, can do little harm. Its contents will be valuable for fertilizing purposes, and the intelligent farmer will not be slow to recognize this fact. In farm work a plumber may be justified in departing from the requirements of city regulations. That non-siphon traps and other expense-saving devices may be used with advantage without materially affecting the sanitary condition of the plumbing system or the health of the occupants of the building may be clearly seen.

THE LOWEST TENDER.

"THE lowest tender" is responsible for much delay and bad workmanship, and yet it is difficult to formulate any method of dealing with contracts in a more practical way, without leaving loopholes for corruption. On the face of it, it seems absurd that work upon which the safety and health of the community depends should be handed over to a contractor who will execute it at the cheapest price and probably in the cheapest manner. Often public bodies accept contracts at a figure which their technical officials know is insufficient for the work; but, except in flagrant cases, the opinion of the latter is not allowed to weigh against what is now almost a universal practice. Work is commenced and continued in an atmosphere of suspicion, and either the leniency of the responsible official results in improper work or his severity leads to the bankruptcy of the contractor. Public bodies are supposed to consider the integrity as well as the professional attainments of the servants whom they appoint to responsible posts and were they to give the latter greater freedom of action, and rely more upon their professional knowledge, the standard of work would undoubtedly improve. Contractors who wish to do their work honestly, and who should, therefore, obtain a proper price for it, have to contend with the ignorance or draft of unqualified men, and see work given away at starvation prices, which, however, after consequent delays, alterations, making good defective work, extra cost of supervision, and subsequent maintenance, become inflated far beyond the actual cost of the initial work executed properly at a reasonable rate. We are constantly seeing and hearing of such cases in municipal and other contracts throughout the country, and for the credit of their profession it is time that engineers endeavored to check this ever-growing evil.

DISTRIBUTE YOUR INSURANCE.

DO not have your insurance so placed that it will all expire on the same day. Many merchants do this and claim as their reason that it is easier to keep track on it that way than if they had to pay a number of premiums at different times. There are a number of very weighty reasons why the insurance should be distributed. In the first place it is just possible that you may forget to renew your policies, and then the store is absolutely without protection. Many exigencies may arise to prevent you looking after this matter on some particular time. You may be called out of town temporarily and detained over the time for renewal. Sickness or a press of other business may cause it to slip your mind. Yet if a fire occurred during the time after the policies had lapsed you would suffer a total loss.

Another feature of the case which is worthy of attention is your comparative independence if you have your insurance divided up into a number of policies which expire at different times. You are in a far stronger position to deal with the insurance companies. There can be no possible chance of the company holding you up unduly, as they could if they knew that your whole insurance expired on that day. You would have to accept their terms or take a chance, for a time at least, of your entire establishment. This is a matter which merits your closest consideration. Do not concentrate your securities too much.

PUNCTUALITY IN APPOINTMENTS

THERE is much complaint among traveling salesmen about the failure of merchants to keep their appointments promptly. This is a charge which should only have to be mentioned to be rectified. A little consideration will show the inconveniences and pecuniary losses which such irregularities cause. A traveler is at great trouble in opening and displaying his samples. In most cases he has a large territory to cover, and it is only by the greatest economy of time that he can hope to cover the ground in the time at his disposal. If, then, when he goes to a town and arranges with a merchant to visit his sample room at a given hour he is compelled to wait for him an hour or two hours or more, his work is made needlessly more difficult. A business man knows the value of time. If he were just to think for a moment that this meant an absolute loss to the traveler and that the same thing may happen two or three times in every town which he visits, the trouble would not often occur.

In all transactions with commercial men, it should be remembered that the relationship of buyer and seller is one of mutual advantage. On this assumption the merchant should extend to the traveler the same treatment which he expects and gets from him.

THE TRIVIAL DETAIL.

NO man should be discouraged because he inadvertently makes a mistake in his business. He should take comfort from knowing that even the shrewdest and most thorough-going and successful business man sometimes blunders. Sometimes a project of great importance is wrecked or defeated through the oversight of a man, whom no one would dream could ever make such a mistake.

A case in point occurred recently in a Canadian city involving the erection of an important building. The projector of the building was among the city's shrewdest business men, and had built up a highly successful business. He

planned the new building with the greatest care; secured an exceptionally fine and central location and set to work to demolish the buildings already standing on the lot. But the new building was never erected, simply because he discovered that the conditions existing in the neighborhood were such as to completely preclude the possibility of finishing the structure without doing away with a small but most essential feature in its construction.

It is surprising how many small things, which yet have important results, are overlooked in this world. The inventor after overcoming the apparently insuperable, often finds his work completely undone by the apparently trivial. It makes us wonder whether our view of life is not upside down.

THE GAUGE OF SUCCESS.

ARE you making the maximum profit out of your business? This is the question the business man should keep constantly before him. There are many conditions over which a merchant has no control. The population of his town may be limited, his capital may be small and he may not be able to expand in ways in which he would desire. These are unfortunate but probably necessary difficulties. They have no bearing on the present question. Assuming the existing general conditions, are you doing the biggest and most profitable business possible?

There are many details which bulk largely in the success or failure of a business. The majority of these lie easily within the power of the average man for their accomplishment. A few instances will illustrate this. In some towns the store exteriors are uniformly dingy and ill-kept. There is no reason for this. A man is not doing full justice to his business who does not make his store as attractive as possible. It is of paramount importance in getting new business and even in retaining the old.

Similarly the show windows are not used to the best advantage. Everyone is not an expert window dresser, but with the examples which are published in these columns there can be no excuse for not having an up-to-date window with attractive display. It is just a matter of getting out of the rut and hustling for business and it is better to hustle for it now than after someone else has come in and compelled you to move. There should be always something new on exhibition to tempt the buyer.

The interior of the store should be run on similar principles. Only so will the business reach its highest mark. A merchant cannot afford to wait for customers to come to him. He must go after them. Vigor and enterprise are as essential in business as they are in everything else.

UNIFORMITY IN CATALOGUES.

A CRYING demand exists to-day for a uniformity in the sizes of catalogues and booklets, yet often the very men who realize the necessity are the most culpable when the matter of bringing out their own catalogue is before them. To keep a presentable file of the heterogeneous mass of the literature issued by the various manufacturers—sometimes of the most valuable kind—is beyond the range of possibility. Anyone receiving a number of catalogues



W. G. Pow, Tillsonburg, Ont.

An Able Window Dresser and Hardware Clerk Employed by W. R. Hobbs, Tillsonburg.

cannot fail to have this borne upon him, and with the additional thought that every firm must take a peculiar delight or make a special aim to have their catalogues of a size different to any other. A concerted effort on the part of manufacturers would meet with general approval and it is hoped that before long such a reform will be effected.

The standard sizes approved by some of the most prominent engineering societies in America are 3½x6 ins., 6x9 ins., and 9x12 ins., which gives ample range for any line of output. Not a few of the larger manufacturers have taken this matter in hand in using one or other of these sizes, and more are bound to follow their example. Those in pamphlet form, suitable for insertion in cloth binders, meet with popular favor, and who can tell the influence on the mind of the prospective buyer in carrying out this idea. It costs little, if any, more, to adopt a uniform system and the satisfaction to the recipient is increased an hundred fold. When the millennium is reached in this respect the manufacturer, the engineer and the artist may collect an industrial library in which we can take a pride, instead of as at present being forced to place his catalogues in some hidden corner that none may note the unkempt appearance begotten by a multiplicity of shapes and sizes.

THE STRENGTH OF ROPE.

A POINT of difference of opinion between many dealers is in regard to the comparative strength of "three-strand" vs. "four-strand" rope. The general idea is that the latter is the stronger, but authorities on the subject differ from this belief. In order to prevent the trade from being imposed upon it is well that the matter be discussed at some length and the real facts made plain.

Three-strand rope is laid more closely, has no heart and the strands bear on each other evenly. On the contrary, there is a space left in the centre of four-strand rope, which is usually filled up by a heart. The rule in making rope to get at the number of yarns put into the heart is that the heart should contain one thirteenth of the total number of yarns in the strands composing the rope. Supposing a four-strand rope contained 132 threads, the heart would be equivalent in bulk to 10 threads, while the strands would contain 33 threads apiece. It is readily seen how much inferior in strength the heart is to any single strand, and it is not surprising that when a strain comes upon the rope the heart is the first to break. After the heart is parted a space is left inside of the rope, one of the strands cuts in, the rope is stranded and after a time goes to pieces. With a three-strand rope this does not occur for the strands bear evenly.

Furthermore, the strength of four-strand rope is much inferior to that of three-strand. The following test of three and four-strand rope is the average of three tests of pure Manilla rope made by United States Government at the Watertown arsenal:

Cir. Size	3-strand	4-strand
2¼-inch	6,206 lbs.	4,633 lbs.
3 -inch	9,800 lbs.	8,583 lbs.
4½-inch	20,873 lbs.	18,100 lbs.

There seems to be no room for question but that three-strand rope is stronger than four-strand rope, and that it is also much better adapted for transmission of power because it can be more easily and thoroughly spliced, no matter how expert a man is employed for this purpose.

MARKETS AND MARKET NOTES

(For detailed prices see Current Market Quotations, page 58.)

Quebec Hardware Markets.

Office of HARDWARE AND METAL,
232 McGill Street,
Montreal, May 26, 1905

NO let up has occurred in the arrival of orders during the week, in fact, if anything, they have increased, and local men in connection with the trade are beginning to wonder whether the retail merchants are laying in a heavy stock in the anticipation of an advance, or whether the goods are going indirectly to the consumer. In former years, trade at this time had assumed a quiet and regular basis, but this year it is different, and instead of becoming somewhat quieter after the rush caused by shipping orders at the opening of navigation, it has become brisker, and the number of orders received during the past few weeks are of such a volume that it has never attained in previous years. A great difficulty is being experienced by the wholesale houses in securing poultry netting to fill orders. Indeed, a number of local houses have had to cancel all orders. At present there is no indication which would point to an early change of these conditions, and, under the circumstances, it would not be surprising if a substantial advance occurred. Spring goods still have the best demand, although, when the sale of builder's hardware is taken into consideration, it is hard to form a definite opinion. Manufacturers of nails are finding it very difficult to ship orders on time, or even supply the jobbing houses with a fair amount of goods so that they may ship their orders promptly. Prices are all firm, and appearances in general have a very bright aspect.

Axes—A few orders are arriving, but the amount of sales which have been transacted so far are not of very much value when taken into comparison with the volume of the trade a few months hence. Our quotations are as follows: Chopping axes, unhandled, $6 to $9.50 a dozen; double bitt axes, $9.50 to $12 a dozen; handled axes, $7.50 to $9.50; Canadian pattern axes, $7.50 a dozen.

Handles—A fair demand continues. The market is devoid of any special features. Prices are firm, but no change is anticipated. We quote as follows: Axe handles, No. 3, $1.25; No. 2, $1.50; No. 1, $1.90 a dozen; adze handles, 34 inch, $2.20 a dozen; pick handles, No. 2, $1.70; No. 3, $1.50 a dozen.

Sewing Machines—The sale of sewing machines has become quieter during the past few weeks, and as households, locally, have become once more settled trade is not expected to be very brisk until next Spring. Prices continue unchanged. We quote the following: Hand sewing machines, $11 each net; complete machines with stand, $18 and up, according to quality.

Lanterns—A few retail merchants are ordering for 1906, but the majority still continue to hold off, and it is expected that trade will remain quiet until something definite regarding the price of next year has been settled. No change has occurred in the price list during the past week. We quote as follows: Cold Blast, $4.50; No. 0 Safety, $3.50.

Barb Wire—Large amounts of barb wire have been shipped to the western portion of Canada this year. Manufacturers have kept the shipment of orders well on time when it is taken into consideration that the demand this year was heavier than has been for some time. Prices are firm, but no change has occurred. We quote: $2.75 for 100 lbs. f.o.b. Montreal; $2.37 1-2 f.o.b Cleveland. Carlots of 15 tons, $2.25 f.o.b. Cleveland.

Fence Staples—Fence staples, like barb wire, have also had a good demand. Orders in fence staples have, however, been shipped well on time, no delay being experienced at any stage of the trade. Our quotations are as follows: $2.65 per 100 lbs. keg, for bright, and $3 for galvanized; 25 to 50 lb packages 25c. extra.

Rivets and Burrs—The season has now become well advanced, and as the merchant has in the majority of cases become well stocked up trade in this particular line has assumed a quieter air. Prices remain the same. Our quotations are: Best iron rivets, section, carriage and wagon box, black rivets tinned do., copper rivets and tin swede rivets, 60, 10 and 10 per cent.; swede iron burrs are quoted at 60 and 10 and 10 per cent. off new lists; copper rivets with the usual proportion of burrs, 45 per cent. off; and coppered iron rivets and burrs in 5 lb. carton boxes at 60 and 10 and 10 per cent.; copper burrs alone, 30 and 10 per cent., subject to usual charge for half-pound boxes.

Screws — Screws, like all other builder's hardware, have had a good demand, and sales this year are better and more numerous than those of former years. Prices are firm, but there is no indication that an advance will take place. Our quotations are: Round head, bright, 82 1-2 per cent.; flat head, bright, 87 1-2 per cent.; brass, round head, 75 per cent.; brass, flat head, 80 per cent.

Bolts and Nuts—The extensive operations in the machinery field of Canada this Spring have caused an excellent demand for bolts and nuts. Orders are going forward freely, and at present there is nothing to indicate a quieter trade.

Wire Nails—The demand this Spring has been so great that at present local wholesale jobbers cannot secure goods from the manufacturers by which they may ship their orders on time. The demand this year has certainly been very heavy, and if it does not soon weaken some delay will be experienced on the part of the retail merchant in securing his orders. Prices are very firm, and there is some talk of a slight advance. Our quotations are: $2.25 a keg, f.o.b. Montreal.

Cut Nails—Trade on this market continues to be unchanged. Prices are firm at quotations as given below. We quote the following prices: $2.20 a keg, f.o.b. Montreal.

Horseshoes—The demand has picked up to a considerable extent during the week, and prices have become much firmer, although no advance has taken place. Our quotations are as follows: P.B. New Pattern, base price, $3.50 per 100 lbs.; M.R.M. Company latest improved pattern iron shoes, light and medium pattern, No. 2 and larger $3.65, No. 1 and smaller $3.90, snow pattern, No. 2 and larger $3.90, No. 1 and smaller $4.15. Light steel shoes, No. 2 and larger, $3.90, No. 1 and smaller $4.15; featherweight, all sizes 0 to 4, $5.50; toe weight, all sizes 1 to 4, $6.75. Packing—Up to three sizes in a keg ten cents per hundred pounds. More than three sizes twenty-five cents.

Horse Nails—Trade on this market continues unchanged. The demand is fair.

Sporting Goods—Although it is yet early, orders for firearms are beginning to arrive more freely. Shot and shells have had a good demand during the past week. Fishing tackle has also had a good demand. Orders for firearms are expected to arrive more freely at a later date. American manufacturers have advanced the price of single-barrel shot guns, and local wholesale houses have desisted from cultivating this part of the trade on account of the strong possibility of a similar advance on this market. We quote the following: Canadian-made shells, black, 25 and 5 per cent.; smokeless, 25, 10 and 5 per cent.; American centre-fire cartridges, list net; sporting and military, 10 per cent. advance on list; primers, $2.05 per thousand; American loaded shells, 20 per cent. discount; B. B. caps, $2 per thousand; C. B. caps, $2.60 per thousand; standard shot, $6.50 per hundred lbs.; chilled, $7 per

hundred lbs.; buck and steel, $7.50 per hundred lbs.; ball, $8 per hundred lbs. We quote discounts 15 per cent. on shot f.o.b. Montreal, Toronto, Hamilton, London, St. John, and Halifax.

Building Paper—No special feature has developed on this market during the past week. The demand still continues to be good, especially in the western provinces, where building operations are more numerous and extensive. Prices are firm, but it is not likely that an advance will take place.

Cordage—Trade is beginning to move in binder twine, and although it is yet early for trade to commence in this particular brand of twine, some very appreciative orders have been received, and the present prospect bids a good trade being accomplished during the coming season.

Cement and Firebrick — English cement and Scotch firebrick still continue to arrive in large quantities. Firebrick has a good sale, especially the Scotch brand, a fair number of large manufacturers on the local market having purchased large quantities with the purpose of using it at a later date. Trade in Canadian Portland cement continues to be quiet. Manufacturers of this cement are cultivating the retail trade to buy direct from the manufacturing plant, and this, of course, in turn kills the trade as far as the commission agent is concerned. There is some talk of prices taking a decline, but up to the present moment no such change has occurred. We quote: English cement, $1.80 to $1.90; Belgium, $1.60 to $1.90 per barrel; ex-store, American, $2.00 to $2.10 ex-cars; Canadian Portland, $1.90 to $2.00. Firebrick, English and Scotch $17 to $21, American $30 to $35.

Coil Chain—Trade still continues to be quiet on this market, and it is expected to remain so for some time to come. We quote: 5-16 inch, $4.25; 3-8 inch, $3.75; 7-16 inch, $3.55; 1-2 inch, $3.35; 9.16 inch, $3 .30; 5-8 inch, $3.20; 3-4 inch, $3.05; 7-8 inch, $3; 1 inch, $2.95.

Green Wire Cloth—Trade on this market is only fair. The rush caused by the Spring demand has subsided, and trade is expected to remain fair until the rush next Spring. Our quotations are: Per 100 square feet, $1.50.

Poultry Netting—Local dealers are experiencing great difficulty in shipping orders on time. On account of a recent fire at the manufacturing point only a small amount can be obtained at any one time, and as it is impossible to obtain any on the English market it is expected that the heavy demand will lead to another advance in prices. Discounts for two inch nineteen gauge standard, and sixteen gauge extras, at 60 per cent.: finer meshes, 55 per cent.

Spring Hinges—The majority of retail merchants have concluded purchasing their stock, and the only orders that are being received are for odd sizes, which are only ordered by the retailer upon the request of his customers. Prices are steady and continue unchanged. We quote as follows: No. 5, $7.25 per gross; No. 19 $18 per gross; No. 20, $18.80 per gross; No. 120, $20 per gross; No. 51, $9.25; No. 50, $27.50.

Ontario Hardware Markets

Office of HARDWARE AND METAL,
10 Front Street East.
Toronto, May 26, 1905.

LITTLE change is noted in the condition of trade, as, while greater activity is indicated by the larger orders being received for sorting, the holiday has broken into the week and unfavorably affected the movement of goods.

The warm weather is causing a rush in screens, Summer doors, etc., while lawn mowers are being sold in unprecedented quantities. Hammocks, awnings and bunting are also being sold in large numbers.

Re-orders for tools and other building supplies are being received in fair number, nails and wire goods also figuring considerably in the orders. Sporting goods and staple lines are meeting with a large sale, the buying for current requirements being increased by the more seasonable weather.

Quotations on all lines continue unchanged.

Lawn Mowers—This line is moving in large quantity the weather being favorable.

Sporting Goods—Fishing tackle, baseball and outdoor athletic goods are in strong demand.

Washing Machines—The demand continues strong, the warm weather causing an increasing sale.

Chain—Small sizes continue active. We quote: 1-4 inch, $6.50; 5-16 inch, $4.45; ⅜ inch, $3.85, 7-16 inch, $3.70; ½ inch, $3.55; 9-16 inch, $3.45; ⅝ inch, $3.35; ¾ inch, $3.25.

Step Ladders—Demand for goods this season is very satisfactory. We quote at 10c. per foot for 3 to 6 feet, and 11c. per foot for 7 to 10 feet ladders.

Extension Ladders—Sales are reported to be fairly large. Waggoner, 40 per cent. off list.

Galvanized Wire—A fair trade is being done. We still quote: $2.37 1-2 f.o.b. Cleveland.

Coiled Spring Wire—Trade continues large amongst farmers. The same quotations continue.

Barb Wire—Business being done is very large, and prices steady.

Wire Nails—Nails are in very active demand, the general activity in the building trades being responsible. Nominal quotations are $2.25 f.o.b. Toronto.

Cut Nails—Cut nails continue to be sold in large quantities. Prices remain firm. Quotations are $2.40 per keg f.o.b. Toronto.

Horseshoes—Movement of goods is very satisfactory. We quote: "P. B." base, $3.65: "M.R.M. Co., latest improved pattern" are: Iron shoes, light and medium pattern, No. 2 and larger, $3.80; No. 1 and smaller, $4.05; snow No. 2 and larger, $4.05; No. 1 and smaller, $4.30; light steel shoes, No. 2 and larger, $3.95; No. 1 and smaller, $4.20; featherweight, all sizes, 0 to 4, $5.50; toe weight, all sizes, 1 to 4, $6.75. If shipped from factory 15c less.

Horsenails — There is a very good demand, and prices remain unaltered.

Screws—The mills are very busy, and prices are unchanged.

Rivets and Burrs—No decrease in the demand is reported, while quotations continue the same.

Bolts and Nuts — Trade continues very large, and stocks are rather short. Quotations remain as before.

Woodenware—All lines are moving actively, the season being favorable.

Cordage—Binder twine is moving in fair quantities, while other lines are also holding their own. Quotations continue: Red Cap, 11½c; Tiger, 10½c; and Standard, 9½c; manila, 14½c; British manila, 11c; sisal, 10½c; double lathyarn, 10½c; single lathyarn, 10c; sashcord, "Hercules," 30 to 32c; "Star," 36 to 38c; cotton twine, 3-ply, 24c; 4-ply, 29c; calking cotton, 16½ to 17c; cotton waste, colored, 6¾c; white, 11 to 13c.

Cement—Building activity is the cause of the large trade being done. We still quote: For carload orders f.o.b. Toronto, Canadian Portland, $1.70 to $1.80; American Portland, $1.70 to $1.80. For small orders ex warehouse: Canadian Portland, $2; American Portland, $2.

Firebrick—Trade continues active, and stocks are being replenished. Quotations continue at: English and Scotch firebrick, 30 to 35c; American, low-grade, 25 to 30c; high-grade, 32 1-2 to 40c.

Building Paper—A brisk demand is noted, as building is going on actively in all parts of the country.

Hides, Tallow, Skins and Wool.

Hides, Tallow, Skins and Wool—Unwashed wool is more plentiful than a week ago. Wool-washed fleece is quoted this week at 20 to 22c. Hides are quiet, with receipts barely enough to meet the demand. We quote the following prices:

Hides, No. 1 green steers, per lb		0 09
" " 2 " "		0 08
" No. 1 green, per lb		0 08½
" " 2 " "		0 07½
Country hides, flats, per lb	0 07½	0 07¾
Calf skins, No. 1, selected		0 11
" No. 2		0 09
Deacons (dairies), each		0 80
Sheep skins		1 25½
Rendered tallow, per lb	0 04	0 04
Unwashed wool, new clip, per lb	0 13	0 14
Pulled wools, super, per lb	0 21	0 23
" " extra "	0 22	0 24
Wool-washed fleece	0 20	0 22

Canadian Metal Markets

ONE feature very remarkable in the trade this Spring is the small imports of pig iron and steel. In former years large quantities of English and Scotch pig iron and steel were imported frequently at Montreal and other Canadian seaports, and the only supposition available for the marked decline is a preferment for the home product. So great has been the demand for tinware, graniteware and similar articles that commission dealers in tin and Canada plates are booking orders, which for size and value have

never been equalled during recent years. The market in connection with raw metals, which has been fluctuating to a considerable extent this Spring, and which became dangerously weak during the early part of this week, has become firmer, and the conditions at present appear brighter and stronger than they have for some time.

Toronto merchants who were hoping to increase their stocks and fill waiting orders have been forced to wait the pleasure of the shipping companies, and foundries waiting for raw material were held while the goods lay on the Montreal wharf. Goods which were unloaded at the first of the month are just being delivered. Each year similar delays occur, the reasons advanced varying with the seasons. Business on the whole is very good, but stocks are light.
HEALEY

QUEBEC.

Office of HARDWARE AND METAL,
232 McGill Street.
Montreal, May 26, 1905.

Pig Iron—General conditions on this market remain about the same. Very little trade is being accomplished in foreign irons. Prices of Canadian iron are firm, but as yet no advance has taken place. We quote the following:

"Disc," No. 1	$16.50	delivered Montreal
"Dom.," No. 1	17.50	" "
Usual difference in price for lower grades.		
Ferrona No. 1	$18 00	delivered Montreal.
" No. 2	17.50	" "
" No. 3	16 50	" "
" No. 4	16.00	" "
Londonderry	$18.50 to $19.00	" "
Glengarnock	18.25	" "
Gartsherrie	19.25	" "
Carnbroe	18.50	" "
Carron No. 1	19.00	" "
" (special)	18.00	" "
Ayresome No. 1	18.25	" "
" No. 3	17.50	" "
Summerlee	18.50 to 19.00	" "
Clarence No. 1	17.50	" "
" No. 3	17.00	" "
No. Cleveland	17.50	" "

Bar Iron—A fair demand is prevalent on this market. Trade is quieter than it was last week, and it is expected to remain so for some time. Our quotations are as follows: Merchant bar, $1.80; horse-shoe iron, $2.02½; forged iron, $2.05; best refined iron, $2.20 net cash thirty days.

Tool Steel—Local merchants are receiving a fair amount of orders from merchants residing in the vicinity of the gulf, and as a result a large number of orders are being shipped this week by steamer. Trade inland continues to be steady and featureless. Our quotations are as follows: Colonial and Black Diamond, 8c to 9c; Sanderson's, 8c to 45c, according to grade; Jessop's, 13c; Jonas & Clover's, 10c to 20c; "Air Hardening," 65c per lb.; Conqueror, 7½c; Conqueror High Speed steel, 60c.

Merchant Steel—During the past week an extra demand for horseshoe steel and toe calk has advanced the value of both brands. Horseshoe has become much firmer, and although no advance has as yet taken place it is expected that one will occur shortly. Toe-calk has advanced 10c. Other prices continue unchanged. We quote: Sleigh shoes, $1.97 1-2: tire, $2.07 1-2; spring, $2.75; toecalk, $2.75; machinery iron finish, $2.10; reeled machinery steel, $2.75; mild, $2 and upwards; rivet, $2.00 and upwards. Net cash thirty days.

Cold Rolled Shafting—A fair amount of orders has been received from manufacturers of machinery. Prices are firm and trade is active. We quote as follows: Cold-rolled shafting, 3-4 inch to 17-16, $3.85 per 100 lbs.; inch and a half to 3 inch, $3.50 per 100 lbs.

Canada Plates—Orders of an appreciative size still continue to arrive. The best demand is prevalent in the western part of the Dominion. Prices are firm. Our quotations are as follows: 52's, $2.35; 60's, $2.40; 75's, $2.45; full polished, $3.60; galvanized, 52's, $3.90 to $4.00; 60's, $4.15 to $4.25.

Galvanized Iron — Trade on this market is steady. No change has occurred in the price list. Our quotations are as follows: Queen's Head, 28 gauge, $4.15; 26 gauge, $3.90; 22 to 24 gauge, $3.65; 16 to 20 gauge, $3.55; Apollo, 28 gauge, $4; 26 gauge, $3.75; 22 to 24 gauge, $3.75; 16 to 20 gauge, $3.40; Fleur-de-Lis, 28 gauge, $4; 26 gauge, $3.75; 22 to 24 gauge, $3.50; 16 to 20 gauge, $3.40; Comet, 28 gauge, $3.95; 26 gauge, $3.70; 22 to 24 gauge, $3.45; 16 to 20 gauge, $3.40; Bell brand, 28 gauge, $4; Gorbal's "Best Best," 28 gauge, $4.15; "Windmill Best," 28 gauge, $3.95; Sword and Torch, 28 gauge, $4.05, in less than case lots, 25c extra.

Black Sheets—With the exception of the continuation of the prevailing demand, trade conditions remain the same. Prices are unchanged, and in all likelihood will continue so for some time. We quote: 28 gauge, $2.15; 26 gauge, $2.10; 22-24 gauge, $2.05; 19-20 gauge, $2.20; 8-10 gauge, $2.30.

Antimony—Trade on this market is steady and featureless. Our quotations are from 9 to 9 1-2c.

Sheet Zinc—The market, which was weak a few days ago, has now become firmer, and at present the outlook is for the continuation of the present conditions. We quote: Cask lots, $7; small lots, $7.25.

Tin Plates—A steady demand continues. The opening of a home industry in this line of business may have an effect on the prices, but up to date nothing in regard to this could be learned. Our quotations are: Cokes, $3.55; charcoal, $4.

Ingot Tin—This market has become steadier and firmer, so that at present the outlook in regard to future trade is better than it has been for some time. The present price ranges from 32 1-2 to 33c.

Ingot Copper—No new development has occurred within recent days. Prices are steady and remain unchanged. We quote the following: From 16 to 16 1-4c.

Ingot Zinc—No further decline in price has occurred. Prices at present quotations are firm. Trade is brisk and the outlook has a bright appearance. We quote the following: 6 1-4 to 6 1-2c.

Pig Lead—A better trade is current in Canadian lead, as the prices are too low to permit foreign lead to be sold at a profit on this market. Prices are firm. Our quotations are as follows: From $3.35 to $3.45, no concessions being obtainable.

Boiler Tubes — Conditions on this market continue to improve and at present a good trade is in progress. Prices continue unchanged. We quote: British and American tube, 1 1-2 inch, 8 1-2c; 2 inch, 8½c; 2½ inch, 10c; 3 inch, 12½c; 3½ inch, 16c; 4 inch, 20c; 5 inch, 45c. Price per foot net.

Scrap Metal and Old Material — Latest developments show that the American markets are dull, while on the English market there is a strong tendency for firmer conditions. The principal condition on the local market is that available stocks are light, and heavy amounts are difficult to obtain. Some few weeks ago, when a depression was rumored on the market, a number of the local merchants, fearing the result, began to unload, with the result that at a later date when foundries began to purchase their usual amounts they found it difficult to buy what they required, and those merchants who had previously held on to their stocks received good prices for it. Trade in old rags is beginning to strengthen again, and it is estimated that if the present war continues through the coming Winter, prices, and the market in general, will take a sharp advance. A strong possibility of the continuation of this war has made many buyers on the English market inquire regarding the amount held by Canadian gatherers. No change has occurred during the week, although all prices are firm. We quote the following: Heavy copper and wire, 12 3-4c.; light copper, 11 1-2c; heavy red brass, 10 1-2c.; yellow brass, from 8 3-4c. to 9c.; light brass, 3c.; lead, 2 1-2c.; zinc, 3 3-4c.; machinery cast scrap, $14.00; wrought scrap, $14.00; stove-plate scrap, $11.00; No. 1 country rags, 75c. to 90c. per hundred lbs.; old rubbers, 5c.

ONTARIO.

Office of HARDWARE AND METAL,
10 Front street east,
Toronto, May 26, 1905.

Pig Iron—A steady demand exists, with stocks low and the mills busy. We quote:

Middlesboro, f.o.b., Toronto	$20 00	$20 50
Hamilton, No. 1, at furnace	18 00	18 50
" No. 2, "	17 50	18 00
Midland, No. 1, "		18 50
" No. 2, "		18 00
Radnor, at furnace		30 00
Londonderry, at furnace	16 50 to	17 00

Bar Iron—Business is active at unchanged prices. Our quotations are as follows: $1.85 f.o.b. Toronto, with discount of 2 per cent.; for extras as cut to length, while rolling, 2 feet and over, 10c per 100 lbs.; 1 foot and under 2 feet, 15c; under 1 foot, 20c; over 20 feet, by special agreement according to length and size.

Tin — The market is quite strong with a steady demand. Prices continue

PORTLAND CEMENT

DRAIN PIPES, CULVERT PIPES,
SEWER BRICKS, INVERTS,
FIRE BRICKS, FIRE CLAY,
BUILDING BRICKS,
FIRE PROOFING
ROAD PAVING BRICKS
and BLOCKS.

Correspondence Invited

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KING, QUEEN and WELLINGTON STS.
MONTREAL

Deseronto Iron Co.
LIMITED
DESERONTO, ONT.
Manufacturers of
CHARCOAL PIG IRON
BRAND "DESERONTO."

Especially adapted for Car Wheels, Malleable Castings, Boiler Tubes, Engine Cylinders, Hydraulic and other Machinery where great strength is required; Strong, High Silicon Iron, for Foundry Purposes.

"MIDLAND"
BRAND.
Foundry Pig Iron.

Made from carefully selected Lake Superior Ores, with Connellsville Coke as Fuel, "Midland" will rival in quality and grading the very best of the imported brands.

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Get our prices for
GALVANIZED FLAT SHEETS
THE "VANDA" BRAND
For all purposes requiring the best quality.
It is "deadflat," well galvanized, true to gauge and specially soft for working-up. We guarantee every sheet bearing our brand.

C.F. JACKSON & CO., Limited
Wholesale Merchants
Ormidale Block, Vancouver, B.C., and
Liverpool, England
Direct Importers of:
Metals of every description, Wire Rope, Portland Cements, Firebricks, Ore Sacks, Grain Bags, etc, etc.

unchanged. We quote from 33 to 34c. pre lb.

Galvanized Sheets — Demand for stocks is heavy and prices the same.

Tin Plates—Trade is reported to be active and prices firm.

Canada Plates—Much business is being done at unchanged prices.

Brass—Trade continues active and prices firm. Discounts are 10 per cent.

Lead—A strong demand is noted. prices continuing to be quite firm. We still quote: Pig lead, $3.80 per 100 lbs., and bar lead, $4.80 per 100 lbs.

Zinc Spelter—Greater activity is noted, prices being firmer than last week. We quote: 7c. per lb. for foreign and 5½ to 5¾c per lb. for domestic.

Copper—A more satisfactory tone exists, and prices are firmer. We quote: Ingot copper, 16 1-4c. per lb., and sheet copper, 21c. per lb.

Antimony—Trade is quieter with fair sales. No changes are noted in quotations.

Old Material—Most lines are moving actively at unchanged prices. We quote: Heavy copper and wire, 12 1-2c per lb.; light copper, 11c. per lb.; heavy red brass, 10½c per lb.; heavy yellow brass, 9c per lb.; light brass, 7c per lb.; tea lead, $2.40 per 100 lbs.; heavy lead, $2.60 per 100 lbs.; scrap zinc, 4c per lb.; iron, No. 1 wrought, $9 to $10, No. 2 wrought, $3 to $5; machinery cast scrap, $14; stove plate, $10; malleable and steel, $5; old rubbers, 5c per lb.; country mixed rags, 65c per 100 lbs.

Coal—Importations are not very large, the railroads being slow in delivery. We quote: Anthracite in cars at bridges: Grate, $4.85 per gross ton; egg, stove and nut, $5.10 per gross ton; pea, $3.50 per gross ton.

Standard Hocking, soft coal, in cars, f.o.b. at mines: Lump, $1.35; ¾ inch, $1.25; run of mine, $1.05; nut, 90c; N. P. and S., 60c., coarse slack, 40c; box cars 10 cents per ton additional.

Youghiogheny soft coal in cars, bonded, at the bridges: 1¼ inch, $2.45; ¾ inch, $2.35; mine run, $2.35; slack, $1.80.

For Manitoba Metal Markets see page 40.

MINING NOTES.

Bituminous coal of an excellent quality is reported to have been discovered within a few miles of Port Haney, and only thirty miles from Vancouver.

* * *

Owing to the exceptional lowness of the Fraser River, there will be a large increase in placer mining this Summer.

* * *

The output of the collieries of the Crow's Nest Pass Coal Co. for the week ending May 19 totalled 16,563 tons, a daily average of 2,760 tons.

* * *

The Algoma Steel Co., of the Canadian Soo, will export 100,000 tons of Brotherton, New Era and Yale ore from the port of Ashland this season. Last season this company handled 35,000 tons of ore through Ashland. They

SANDERSON'S TOOL STEEL

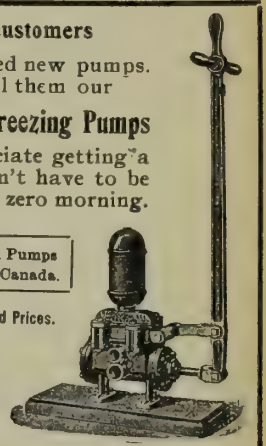
"The most reliable tool steel on the market."

LARGE ASSORTMENT IN STOCK.

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Ask your customers
if they don't need new pumps.
If they do sell them our
Standard Anti-Freezing Pumps
They'll appreciate getting a pump that doesn't have to be thawn out every zero morning.

—MoDougall Pumps
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"ALPHA"
HIGH SPEED STEEL
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Large stock on hand. Send for Stock List

NOVA SCOTIA STEEL & COAL CO., Limited
NEW GLASGOW, N.S.
Manufacturers of
Ferrona Pig Iron
And SIEMENS-MARTIN
OPEN HEARTH STEEL

have opened offices at Ashland, with Ed. A. Penny as agent. The Algoma Steel Co. is engaged in the exclusive manufacture of 80-pound steel rails.

* * *

The output of the Dominion Iron & Steel Co.'s iron ore quarries at Bell Island, Nova Scotia, is expected to reach 500,000 tons this year, which is 150,000 tons larger than any previous year since they were opened. Almost the entire output will be taken to the works at Sydney.

* * *

W. G. Trethewey, Toronto, has been awarded the mining location near Coleman by the commission appointed to investigate the rival claims, the Nipissing Mining Co., a New York firm, having withdrawn their contention. There is a narrow vein of silver cobalt ore in the location which has not been worked, and, of course, the property may turn out to be much richer than is now supposed. Mr. Trethewey is the owner of the silver-cobalt mine, bearing his name, near Cobalt.

* * *

Rossland ore shipments for the week ending May 20 were as follows: Le Roi, 2,175 tons; Centre Star, 1,740 tons; War Eagle, 1,350 tons; Le Roi No. 2, 90 tons; White Bear (milled), 330 tons; Jumbo, 200 tons; Spitzee, 90 tons; total for the week, 5,975 tons, and for the year, 134,089 tons.

* * *

Although Canada has not so far taken a prominent place among the manganese-producing countries of the world, this is not due to lack of deposits of the ores. The country has been exporting ores of this mineral for half a century. These, so far, have come mainly from Nova Scotia and New Brunswick, but the mineral is also found in Quebec, Ontario and the western country. In the Rainy River districts deposits of manganese have been discovered in iron-ore deposits, while it is also found in a honeycombed formation four or five feet thick, composed of clay and sand, without sulphur or lime, near Willow Creek, Assiniboia.

LONDON METAL MARKETS.

From Metal Market Report, May 24, 1905.

Pig Iron—Middlesboro No. 3 foundry is quoted at 45s. 10 1-2d, and Scotch warrants at 50s., making prices as compared with last week 1 1-2d lower for Middlesboro and 2s. lower for Scotch warrants.

Tin—Spot tin opened firm at £136 7s. 6d, futures at £135 7s. 6d, and after sales of 230 tons of spot and 60 tons of futures closed firm at £136 15s. for spot and £135 12s. 6d for futures, making price as compared with last week £1 5s. higher on spot and £1 2s. 6d higher on futures.

Copper—Spot copper opened firm at £64 7s. 6d, futures £64 10s., and after sales of 200 tons of spot and 300 tons of futures closed firm at £64 10s. for spot and £64 12s. 6d for futures, making price as compared with last week 3s. higher on spot and 5s. higher on futures.

Lead—The market closed at £12 15s., making price as compared with last week 6s. 3d higher.

Spelter—The market closed at £23 12s. 6d, making price as compared with last week unchanged.

New Brunswick Markets

St. John, May 22, 1905.

THE hardware business has been satisfactory of late, and the outlook, moreover, is that the Summer trade will not fall short of the record of other years. As in other lines of business, however, the collections have not been of the best. This, though a somewhat disappointing feature of the business at present, is bound to give way before long. Indeed, there is evidence that the improvement is already within sight. Prices are steady in most cases, with an upward tendency showing itself in some goods. Turpentine and linseed oil are showing slight uses.



Emerson & Fisher's New Building, St. John, N.B.

This time of year is, of course, a good one for dealers who make a specialty of handling garden tools and other agricultural implements. The demand for these articles is very strong this year. Garden hose is selling in unusually large quantities. Refrigerators are also articles which are strong sellers, and several city firms are making special displays of these goods which are very creditable indeed.

Messrs. Emerson & Fisher are now installed in their new building. The public was given an opportunity to inspect the building a few days ago, and many expressions of pleasure were heard as the splendid features of the structure were recognized. An aluminum match-box was given as a souvenir to the visitors by the firm, over 2,000 attending the opening and no goods being offered for sale.

Mr. John E. Wilson has recently had his growing business incorporated as the J. E. Wilson Co., Limited. The capital stock of the new company is $40,000. The change in the business means, among other things, that the sphere of operations of the concern will be considerably enlarged. Hitherto Mr. Wilson has confined his business chiefly to St. John and the immediate vicinity. Now, however, the company's workmen will be available for work much further afield. The company will handle contracts for metal construction work generally, and also for iron castings for building purposes. The concern has well-equipped metal-working premises and a foundry in the city. Mr. Wilson has made an enviable name for himself in the business world, and his new move will doubtless make him even better known.

A new stove store and a foundry for the manufacture of stoves will shortly be established here. Mr. James L. McAvity has recently acquired a building which he proposes to turn into a foundry, and to fit it with the latest machinery. Mr. McAvity, so it is reported, will also open a retail stove store. He is the gentleman who a short time ago purchased the McLean & Holt business here. The opening of the proposed foundry will mean the employment of quite a number more men, and will be another forward step in the development of the manufactures of St. John.

The annual meeting of the Maritime Nail Co., Limited, was held a few days ago. The reports submitted were all satisfactory, and the usual semi-annual dividend was declared. The officers chosen for the ensuing year are: Mr. James Manchester, president; Mr. R. C. Elkin, vice-president; Mr. Eben Perkins, general manager and treasurer; Mr. F. P. Elkin, secretary; Mr. F. E. Marvin, general superintendent. Mr. Eben Perkins was elected a director in place of Mr. Joseph Allison, who retired from the board.

Nova Scotia Markets

Halifax, N.S., May 22, 1905.

THE backward weather is having a very depressing effect upon business in nearly all lines. Merchants report trade pretty quiet compared with what should be expected at this season of the year, and the whole trouble is attributed to the atmospheric conditions. There is a fairly good jobbing trade being done in building materials, but in other lines it is dull. Collections are reported to be only fair.

* * *

Turpentine has taken a rapid rise. It is now quoted at 94 cents, an increase of nine cents in less than two weeks. The oil market is also showing an upward tendency, both raw and boiled advancing. Linseed is selling at 48

cents. and boiled at 51. Both quotations are three cents per gallon higher than they were a week ago.

* * *

At a recent meeting of the Strathcona Coal Co., with mines at River Hebert, the directors reported that the past year their energies have been principally directed to the development of the 40-inch seam discovered on their areas. The slope has been sunk about 365 feet, and the output from it is now about 50 tons per day. They expect in the near future a total output of 550 tons a day from both slopes. The company has taken additional leases, and now holds about 2,500 acres in one block. They have since the company was incorporated spent $89,701.92 for mining property and rights, $40,558.51 for buildings and machinery and $4,156.91 for real estate.

* * *

It is reported here that an automatic electric signalling device is to be introduced on the I.C.R. between Moncton and Painsec Junction. The device is the property of the McPhee Automatic Signalling Co., of Toronto.

* * *

The steamer Atlas is now on her way to Sydney from New York with 1,500 tons of manganese ore for the Dominion Iron and Steel Co.

* * *

The Furness liner Gulf of Ancud, which arrived here last week, landed 1,575 bags of cement. The bags weigh 113 1-2 pounds each, and being convenient to handle find a ready sale.

* * *

Robert Brown, of Paisley, Scotland, an expert clay worker, has been brought to Nova Scotia to inspect the fire clays in connection with the coal measures of Stellarton, Westville and other collieries in Pictou County. Mr. Brown is skilled in all ceramic work, and should these by-products of our coal measures prove suitable, more skilled artizans will be imported, and the new industry will be extensively developed.

* * *

There has just been installed on the Cape Breton Electric Co.'s station at Sydney a new fire whistle. The ringing-in of the alarm causes the whistle to blow automatically.

* * *

An attractive exhibit of the products of the Nova Scotia Steel & Coal Co. was on view at the Board of Trade rooms, Sydney, last week. The exhibit comprised coal from two seams of the old Sydney mines, iron ore, pig iron, several different fluxes, steel shafting, rails, railway spikes, etc.

* * *

A big steel flat car with a capacity of 100,000 pounds, the property of the Philadelphia & Reading Railroad Co., arrived in the province last week and attracted considerable attention, as it was the first of the kind to visit Nova Scotia. The car is built entirely of steel, and has not a splinter of wood about it. It was loaded with a great fly wheel and other machinery for E. T. Davison's lumber mill at Springfield, Annapolis County. This mill, when completed, will be the largest in Nova Scotia.

If you are catering to the building trade you know that builders who have once used "Hayes" Metallic Lathing cannot be induced to use any other. Its grip upon the mortar is so tenacious that it takes but half the quantity required by wood or cheap metal lathing, makes partitions much narrower, and has a lightness, rigidity and freedom from "buckling" found in no other make of metal lathing. It's fire-proof, rat-proof and sanitary. No live builder should overlook the superiority of "Hayes" Metallic Lathing.

OUR NEW $10,000 CATALOGUE We have just issued the most complete Catalogue ever offered to the Metal Trade. It is a veritable encyclopedia of all that's practical and beautiful in the art Manipulation of Sheet Metal. Book contains 440 pages, superbly bound and illustrated. We send it free upon request from any builder, contractor or dealer of responsibility.

THE METALLIC ROOFING CO. OF CANADA, Limited

Manufacturers Toronto, Canada

(Established Twenty Years)

We also manufacture:
"Eastlake" Steel Shingles
"Empire" Steel Shingles
"Metallic" Steel Siding
"Metallic" Galvanized Fronts
"Metallic" Galvanized Cornices
"Metallic" Galvanized Crestings
"Metallic" Galvanized Finials
"Metallic" Galvanized Eavetroughs
"Metallic" Galvanized Conductors
"Metallic" Pressed Zinc Ornaments
"Halitus" Ventilators
"Metallic" Embossed Steel Ceilings
"Metallic" Skylights
and builders' sheet metal goods of all kinds.

UNITED STATES METAL MARKET.

Advance proofs furnished HARDWARE AND METAL by The Iron Age, May 25, 1905.

IN all the leading distributing centres the pig iron market is very quiet. No sales of any consequence for forward delivery have taken place, but there is a fair volume of orders for early delivery and consumers are taking their iron on old contracts steadily. A very sharp distinction must be made between the volume of buying and the current or future consumption. Production has been very slightly in excess of requirements, but that does not mean that consumption is not going on at an unprecedented rate. In fact, there are some indications that the foundry trade, which has disappointed possibly extravagant expectations, is picking up a little.

Sentiment has changed, however; prices are weaker and buyers are holding off, convinced that a somewhat lower level in pig iron will be reached.

Some reports have been current that the United States Steel Corporation would purchase pig iron for June delivery, and color to that hope has been given by the fact that five of the furnaces have been blown out, these being two stacks in the Cleveland district, one in the Mahoning Valley, one in Pittsburg and one in the Wheeling district. It is authoritatively stated, however, that from present indications such purchases in the open market for June are not probable.

The maximum in production has evidently been passed. In addition to the furnaces referred to, Cleveland and Punxsutawney have blown out for relining and one Niagara is just blowing out.

Steel billets are somewhat easier, and it is worthy of notice that the leading interest is again offering steel more freely abroad.

As for the finished products, the matter lies in a nutshell: The buying and the consumption in the heavy lines are very great and promise to continue, to judge from the orders booked and the new tonnage coming up. In the lighter lines, distributed chiefly by the jobbing trade, the merchants bought late last year and early this year, and bought heavily in anticipation of the Spring demand, tempted by low prices. The mills therefore were rushed and are still busy either making deliveries or accumulating the usual stocks. The Summer dullness has therefore been transferred to the Spring.

Many of the jobbers overbought, and having good margins below official prices, which had been advanced in the meantime, have made concessions. There are now conflicting reports as to the extent to which they have cleaned up. Some observers state that, notably in tubes, the movement has lately been heavy.

In the rail trade there has been some new business. One northern mill has taken 12,000 tons for an Alabama road and a lot for Michigan, and a number of other orders running up to 5,000 tons and over each have been placed. The specifications for the Wabash terminal contract for 12,000 tons have been given. In well-informed circles no credence is attached to the report of a Russian order for 40,000 tons. Some months since negotiations were pending at St. Petersburg for a much larger quantity with American mills, but since then the international rail situation has changed in some important respects.

The structural mills and plate mills are getting further good orders. Some large purchases of cars have been made, and five large new steamers have been contracted for with lake shipyards, for four of which the steel is still to come into the market. Chicago reports a string of very nice orders pending for steel work for buildings, and New York and other cities have a very good ton-

nage coming up. Among the larger bridge contracts pending are a lot of 10,000 tons for Virginia and 8,000 tons for terminals at Bay Ridge.

The independent makers of merchant pipe have had a meeting to discuss the situation at Pittsburg. An interesting sale is 27 miles of 6-inch pipe for Kansas, taken by a Youngstown mill. The Skelp mills of Pittsburg are busier, but the eastern mills are running very slowly.

While scrap is still very weak, there are some indications that some of the dealers are turning buyers.

GOLD SPENT IN GETTING GOLD.

LAST year's gold output was the greatest in the world's history, $340,000,000, about $15,000,000 more than in 1903. The United States Mint Director in discussing the prospects of British Columbia and Yukon, says it is stated that there are enormous quantities of low grade ore in the southern part of the province, but much of it cannot be profitably worked under existing conditions. So far as the Yukon is concerned, it is thought that unless other sources of supply are found besides placer mines, the decline in production of that country will probably continue. South Africa has reached the position she occupied before the war, and for a long time to come will probably be the largest factor in the general supply. It is thought that with Chinese labor, in a few years the output will reach $200,000,000, or more than double what it is at present. The United States hardly holds its own. In Australia, mining is carried on on well-understood conditions, but the Director of the Mint does not think that the mines of Western Australia can be depended upon as a permanent source of supply.

The St. John Sun, in discussing the United States Mint Director's report, expresses the opinion that "some day it may be discovered that the $300,000,000 worth of labor and probably much more than that, which is expended in finding and bringing into the form of coin and bullion this $300,000,000 worth of gold, to be piled up as a reserve, is economic waste. To say so, suggests Bryan, and fiat money, and all sorts of heresies. Yet it appears that an immense amount of work and means of subsistence is spent in producing a substance which in itself ministers to no human need. These things, however, are relative, and the value of the world's agricultural products is probably fifty to one hundred times the value of the production of gold. One per cent. of the world's activities may be deemed not too much to expend in providing a convenient and almost universal measure of values and a means of steadying the markets and value of other articles of trade."

Metals

Hardware and Metal Conditions in Manitoba.

(Market quotations corrected by telegraph up till 12 a.m. Friday, May 26, 1905.)

Office of HARDWARE AND METAL
Room 511 Union Bank Building,
Winnipeg, Man.

STILL another large warehouse is to be erected in Winnipeg this season by an eastern firm. Joseph Wright, president of the Dominion Radiator Co., of Toronto, is now in Winnipeg, and he confirms the rumor that his company will erect large warehouses and offices in this city. A site has been secured on Victoria street, and tenders are being called for. Darling, Pearson & Oliver are the architects.

* * *

Mr. T. H. Newman, of Caverhill, Learmont & Co., Montreal, is in Winnipeg this week and busily employed at the firm's quarters here. He is accompanied by Mrs. and Miss Newman, and is registered at the "Empire."

* * *

General business is very active, particularly in all lines of builders' supplies. There are no important changes in price.

* * *

Screen Wire Cloth—Selling well by mail orders. Many dealers are apparently assorting stock in this line. Price is $1.55 per 100 square feet.

Poultry Netting — In brisk demand. For the 2-inch mesh in No. 19 gauge wire, prices are as follows:

24-inch roll, per roll		$1 20
30 " "		1 50
36 " "		1 80
48 " "		2 40
60 " "		3 00
72 " "		3 60

Wire—All kinds of wire and fencing are in brisk demand. Prices are steady. We quote:

Barbed wire, 100 lb		$2 85
Plain galvanized	6 to 8	3 39
"	9 2 50	2 90
Plain galvanized	10	3 50
"	12	3 10
"	13	3 20
"	14	3 90
"	15	4 45
"	16	4 60
Plain twist		2 85
Staples		3 35
Oiled annealed wire	10	2 96
"	11	3 02
"	12	3 10
"	13	3 20
"	14	3 30
"	15	3 45

Annealed wires (unoiled) 10c. less.

Horseshoes—As noted last week, there has been an advance in steel shoes. Business is fairly active. We quote:

Horseshoes, iron, No. 0 to No 1	$4 55
No. 2 and larger	4 30
Snow shoes, No. 0 to No. 1	4 80
No. 2 and larger	4 55
Steel, No. 0 to No. 1	4 75
No. 2 and larger	4 50

Horsenails—Discounts are as follows: "C" brand 40, 10 and 7 1-2 per cent., "M" brand and other brands 55 and 60 per cent. Add 15c. per box.

Wire Nails—There is a tremendous movement in wire nails at present. Base price quoted $2.85 per keg.

Cut Nails—There has been very little activity in the cut nail market since wire nails have been reduced to a lower price. Base price is $2.85 per keg.

Screws—Also in very brisk demand at unchanged discounts. We quote:

Screws, flat head, iron, bright	85 and 10 p.c.
Round " "	80 p.c.
Flat " brass	75 and 10 p.c.
Round " "	70 and 10 p.c.
Coach	70 p.c.

Nuts and Bolts—Discounts continue as follows:

Bolts, carriage, ⅜ or smaller	60 and 5 p.c.
" 7-16 and up	55 p.c.
Bolts, machine, ⅜ and under	55 and 5 p.c.
" 7-16 and over	55 p.c.
Bolts, tire	65 p.c.
Bolt ends	55 p.c.
Sleigh shoe bolts	65 and 10 p.c.
Machine screws	70 p.c.
Plough bolts	55 p.c.
Square nuts, case lots	3c. discount.
" " small lots	2½c. "
Hex " case lots	3c. "
" " smaller lots	2½c. "

Rivets—We quote discounts as follows:

Rivets, iron	60 and 10 p.c.
Copper, No. 8	29½
" No. 12	33

Coil Chain—We quote:

Coil chain, 3-16 inch	9.25
" ¼ inch	7.25
" 5-16 inch	5.20
" ⅜ inch	4.60
" 7-16 inch	4.45
" ½ inch	4.30
" ⅝ inch	4.10
" ¾ inch	4.00

Shovels—Discounts on spades and shovels continue 40 and 5 per cent.

Harvest Tools—Discount 60 per cent.

Axe Handles—We again quote as follows:

Axe handles, turned, s.g.hickory, doz	$3 15
No. 1	1 90
No. 2	1 60
Octagon extra	2 30
No. 1	1 60

Axes—We quote:

Axes, chopping	$ 6 75 to 12 00
" double bitts	12 00 to 18 00

Files—We again quote as follows:

" Arcade "	70 and 10 p.c.
" Black Diamond "	60 p.c.
" Nicholson's "	62½ p.c.

Building Paper—There is a tremendous demand for all classes of building paper, as building operations are larger this year than ever before. Prices are:

Anchor, plain	55c.
" tarred	70c.
Pure fibre, plain	60c.
" " tarred	80c.

Ammunition, Etc.—We again quote:

Ammunition, cartridges, Dominion R.F.	50 and 5 p.c.
Dominion, C.F., pistol	30 p.c.
" military	15 p.c.
Ammunition, cartridges, American R.F.	33⅓ p.c.
C.F. pistol	5 p.c.
C.F. military	10 p.c. advance.

Loaded shells:	
Eley's and Kynoch's soft, 12 gauge black	15 00
chilled, 12 gauge	16 00
soft, 10 gauge	18 00
chilled, 10 gauge	19 00
Shot, Ordinary, per 100 lb	6 25
Chilled	6 75
Powder, F.F., keg, Hamilton	4 75
F.F.G., Dupont's	5 00

Tinware, Etc.—We quote again as follows:

Tinware, pressed, retinned	70 and 10 p.c.
" " plain	75 and 2½ p.c.
" pieced	30 p.c.
Japanned ware	37½ p.c.
Enamelled ware, white	45 p.c.
" Famous	50 p.c.
" Imperial	50 and 10 p.c.

Cordage—Prices are:

Rope, sisal, 7-16 and larger, basis	11 25
Manila, 7-16 and larger, basis	15 25
Lathyarn	11 25

Solder—Quoted at 21 cents per lb.

Bluestone—Price is $5.75 per cwt.

Iron and Steel—Market is active and steady. We quote:

Bar iron (basis)	2 50
Swedish iron (basis)	4 75
Sleigh shoe steel	2 65
Spring steel	3 00
Machinery steel	3 50
Tool steel, Black Diamond, 100 lb	9 50
Jessop	13 00

Black Sheets—Prices steady. We quote:

Black sheets, 10 to 16 gauge, 100 lb	3 50
18 to 22 gauge	3 75
24 gauge	3 90
26 gauge	4 00
28 gauge	4 10

Galvanized Iron—In brisk demand at steady prices. We quote:

Apollo, 16 gauge	4 00
18 and 20 gauge	4 00
22 and 24 gauge	4 25
26 gauge	4 25
28 gauge	4 50
30 gauge or 10¼ oz	4 75
Queen's Head, 24 gauge	4 25
26 gauge	4 50
28 "	4 75

Tin Plates—We quote:

Tinplate, IC charcoal, 20 x 28, box	9 50
" IX "	11 50
" IXX "	13 50

Canada Plates In active demand at unchanged prices. We quote:

Canada plate, 18 x 21, 18 x 24	3 25
Canada plate, 20 x 28	3 50
Canada plate, full polished	4 00

Sheet Zinc—The price of cask lots is $8.25 per 100 lbs.; price of broken lots is $8.75.

Pig Lead—$4.50 per 100 lbs.

Iron Pipe—We quote:

Black iron pipe, ⅛ inch	....
" ¼ "	2 45
" ⅜ "	2 65
" ½ "	3 00
" ¾ "	3 80
" 1 "	5 50
" 1¼ "	7 45
" 1½ "	8 95
" 2 "	12 30

Petroleum — Prices continue steady. We quote:

Silver Star, per gal	20½c.
Sunlight "	21½c.
Eocene "	23½c.
Pennoline "	24½c.
Crystal Spray "	23½c.
Silver Light	21½c.

(In barrels f.o.b. Winnipeg.)

Paris Green—In seasonable demand. We quote:

Ontario Lantern & Lamp Co., Limited

Lanterns, Lamps, Lamp Burners, Etc.

NICHOLSON FILE CO.

***High Grade Files and Rasps* (WARRANTED)**

Orders solicited from the wholesale trade

WALTER GROSE, MONTREAL, - - Sole Selling Agent

FOR **STORAGE** IN **WINNIPEG**

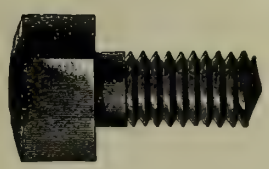
Handling and reshipping of goods. Brick warehouse with track facilities

MACKENZIE BROS. WRITE 244 PRINCESS ST. OR P.O. BOX 579 **WINNIPEG.**

ORNAMENTAL GLASS

The time is past for the west to send east for anything in the Ornamental Glass Line. We do bevelling, silvering, chipping, sand-cutting, Lead and Copper Work, Memorial Window Work, etc. Workmanship surpassed by none. Staff increased double in past year. Prices right.

THE WINNIPEG PAINT AND GLASS CO., LIMITED
WINNIPEG, CANADA



THE JOHN MORROW MACHINE SCREW COMPANY, Limited

Manufacturers of

Set and Cap Screws, Special Milled Work, Engine Studs, Etc. Cold Punched Nuts of every variety of finish.

INGERSOLL, ONT.

ASK YOUR JOBBER FOR

GILBERTSON'S

COMET

Brand Galvanized Sheets

People who use this brand find there is none better and they particularly like its low price. Give it a trial. Every sheet is guaranteed.

Makers: W. GILBERTSON & CO., Limited
Pontardawe, South Wales.

W. I. W. Hoops
"DEAN" Terne Plates
Imitation Russian Iron

LOWEST PRICES

J. A. HENDERSON, Board of Trade Bldg., MONTREAL
Agent for T. W. & J. WALKER, Wolverhampton

English Paris Green—Petroleum barrels, 14 1-4c.; arsenic kegs, 14 1-2c.; 50 and 100-lb. drums, 15c.; 25-lb. drums, 15 1-2c.; 1-lb tins, 17c.; 1-2-lb. tins, 19c.; 1-lb. cardboard boxes, 16c.; 1-2-lb. ditto, 18c. Terms 2 per cent. off for cash in 30 days: 90 days net.

Canadian Paris Green—50-lb. drums

CONDENSED OR "WANT" ADVERTISEMENTS.

YEARLY CONTRACT RATES.

100 words each insertion,	1 year		$30 00
" " "	6 months		17 00
" " "	3 months		10 00
50 " "	1 year		17 00
" " "	6 months		10 00
25 " "	1 year		10 00

SITUATION WANTED.

ADVERTISING man, well up in catalog compiling and business correspondence, open for engagement. Box C 48, HARDWARE AND METAL, Montreal. (22)

EXPERIENCED hardware traveller would like position, either inside or on the road. Box 252, HARDWARE AND METAL, Toronto. (21)

TRAVELER WANTED.

WANTED—First-class traveler, with thorough knowledge of paint and glass business, to represent jobbing and manufacturing house in Manitoba and Northwest Territory, headquarters in Winnipeg. Must be of good address and strictly temperate. A good position for a good man; none other need apply. Address Box 242, HARDWARE AND METAL, Toronto. (21)

AGENT OPEN FOR ENGAGEMENT.

A MANUFACTURERS' agent wishes to represent English, American or foreign manufacturers of hardware specialties; references exchanged. Box 250, HARDWARE AND METAL, Toronto. (23)

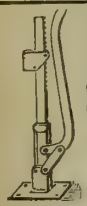
BUSINESS CHANCES.

IF you wish to buy or sell a business anywhere in Western Canada, it will pay you to communicate with us. We have some good legitimate propositions on our list; handle nothing else. Address The Business Brokers, 611 McIntyre Block, Winnipeg, Man. (tf)

GOOD hardware store, plumbing and tinsmithing business for sale in Western Ontario. Apply Lock Box 122, Listowel. (22)

SITUATION VACANT.

JUNIOR clerk in hardware store, 3 or 4 years' experience. Apply 534 Queen West, Toronto. (21)



COVERT MFG. CO.
Troy, N.Y.
Steel Carriage and Wagon Jacks
Harness Snaps, Chain, Rope and Web Goods, etc.
SOLD BY ALL LEADING JOBBERS.

FOR SALE

1 Pair of Scales (capacity 2,000 lbs.)

Apply Box 238

Hardware and Metal
10 FRONT STREET E., TORONTO.

17c., bulk 18c.; in 1-lb. packages 20 cents.

Paints and Oils—All classes of painting material are in brisk demand. We quote:

White lead (pure)	$5 00 to $5 50
Bladder putty, in bbls	0 02½
" " in kegs	0 02¾
Turpentine, pure, in barrels	$ 1 00
Less than barrel lots	1 05
Linseed oil, raw	0 60
Boiled	0 63

Window Glass—As noted last week, there has been a sharp advance in glass owing to short supplies and the condition of the Belgian market. We quote:

16-oz. O.G, single, in 50-ft. boxes—	
16 to 25 united inches	$2.40
26 to 40 "	2.65
16-oz. O.G., single, in 100-ft. cases—	
16 to 25 united inches	4.25
26 to 40 "	4.50
41 to 50 "	5.00
51 to 60 "	5.50
61 to 70 "	6.00
21-oz.C.S., double, in 100-ft. cases—	
26 to 40 united inches	7.35
41 to 50 "	8.40
51 to 60 "	9.45
61 to 70 "	10.50
71 to 80 "	11.55
81 to 85 "	12.60
86 to 90 "	14.75
91 to 95 "	17.30
6 to 100 "	

BUSINESS CHANGES.

Ontario.

T. Mackie, lumber merchant, Pembroke, is dead.

The stock of Chas. Stark & Co., dealers in sporting goods and sewing machines, Toronto, was sold by auction May 25th.

Quebec.

Gamelin & Leduc have been registered as plumbers, St. Paul.

J. O. Bastien, Montreal, has sold his hardware business to H. Charbonneau & Co.

Manitoba and N.W.T.

Foucer Bros., hardware merchants, Camrose, have advertised their business for sale.

Sutherland & Campbell, tinsmiths, High River, have opened up in business at Nanton.

I. D. Chappell, dealer in agricultural implements, Stoughton, has sold to Chappell & Chappell.

Matheson & Monton, dealers in agricultural implements, Lumsden, have assigned to T. Colclough.

Herm, Weissenburger & Co.
Canstatt, Germany

SPINNERS
STAMPERS
PIERCERS
PLATERS
and JAPANNERS

Nickel plated, fancy, household and kitchen articles; advertising and shop front clocks; articles for export made to order and German hardware bought and shipped on commission.

PERSONAL AND TRADE NOTES.

Mr. Walter Page Baxter, of the Naturo Co., Salem, N.J., was a caller on Hardware and Metal in Toronto on Thursday.

W. A. Jones and George Lambert have opened a paint shop at Sarnia. Both men are well known and should meet with success.

M. Taylor, of Winkler, Man., has purchased J. J. Andrews' hardware store at Dundurn, Assa., and proposes to erect a large building.

Mr. E. Dowsley, manager for A. Ramsay & Son, of Montreal, manufacturers of white lead and mixed paints, is spending the week in New York.

Mr. C. T. Pearce, Toronto, who has represented the Pease Foundry Co. in Eastern Ontario for the last five years, has severed his connection with that company.

F. Hamilton & Co.'s hardware store at Hamilton was robbed last week, the thieves securing $16 in money, eight revolvers, two revolver cases, and a pair of police nippers.

Mr. W. Ernest Wheatley, representing Wheatley Bros., of Sheffield, Eng., left on May 18th, on board the steamer Tunisian for Montreal. Mr. Wheatley intends to make a business trip throughout the Dominion of about one month's duration. Wheatley Bros. are a large firm, and are noted throughout England for their celebrated table and pocket cutlery, scissors, razors, etc.

Mr. F. J. Ellsworth, manager of the Borden Co., Warren, Ohio, was in Toronto on Thursday completing arrangements with Armstrong Bros., Sheppard street, Toronto, to manufacture for Canada their line of pipe-threading machines, hand and bolt stocks. It is expected that Armstrong Bros. will be in a position to supply the Canadian trade with this line about sixty days from date.

The following hardware merchants of St. John, N.B. have decided to close their doors at 1 p.m. on Saturday during the Summer months: W. H. Thorne, Limited, Emerson & Fisher, Limited, T. McAvity & Sons, J. W. Addison, the S. Hayward Co., M. E. Agar, H. Horten & Son, Limited, the McClary Mfg. Co., the James Robertson Co., J. J. Barry, I. & E. R. Burpee, Kerr & Robertson.

Mr. F. J. Travers, of the Canada Radiator Co., Montreal and Port Hope, was in Toronto on Wednesday. Mr. Travers states that the plant of the company is being removed to the new works at Lachine, Montreal, as rapidly as possible. A large stock on hand at Port Hope at present will remain there until disposed of, after which time all the manufacturing will be done at the new works.

Mr. John Trotter, for many years on the traveling staff of Frothingham & Workman, Limited, Montreal, has severed his connection with that firm to associate himself with his brother in the Standard Drain Pipe Co. Last Friday, before leaving, the staff presented him with a fine leather traveling bag as a remembrance of their past associations with the firm. In future the district formerly presided over by Mr. Trotter will be covered by Mr. Frank Miggins.

NEW PATTERN OF MOP.

An item of news which should be of interest to the hardware merchants of Canada is the appearance of a new style of mop (original in its idea) on the market. The Stover Mfg. Co., of Freeport, Illinois, are the manufacturers of this article. Fig. 1 shows a view of the mop only; Fig. 2 shows mop with brush attachment; and Fig. 3 shows mop with brush and rag attachment. This mop is made of malleable iron, which it is expected will be tinned at an early date. It is something new and does not require an extra attachment for using the brush or the brush and rag. It has no spring or lever to get out of order or break, and it is believed to be the strongest and simplest mop yet placed on the market.

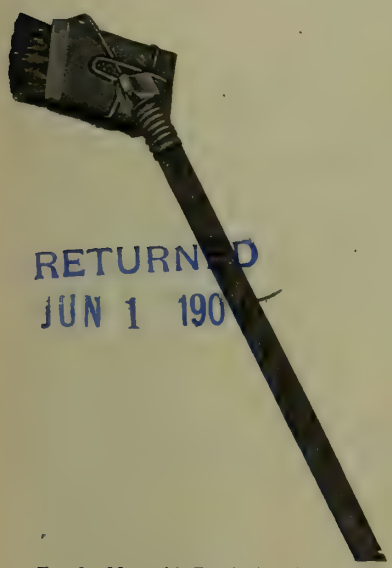

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Fig. 2.—Mop with Brush Attachments.

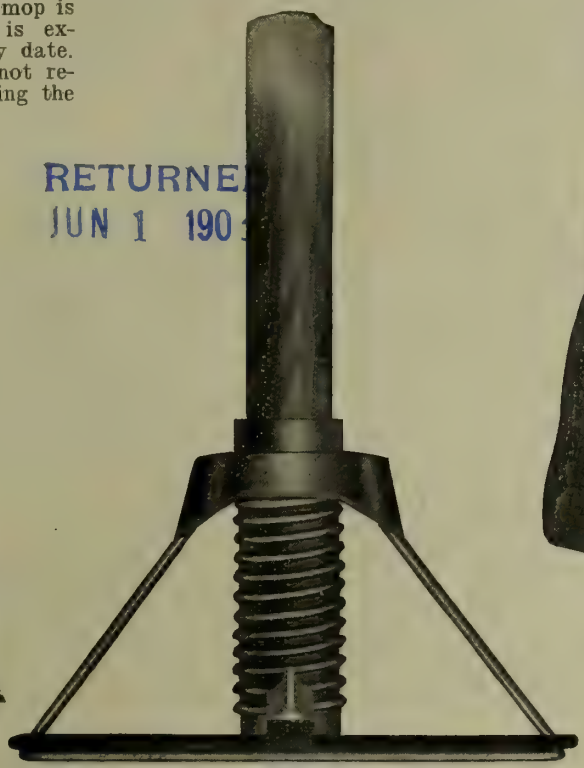

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Fig. 1.—View of Mop Only.

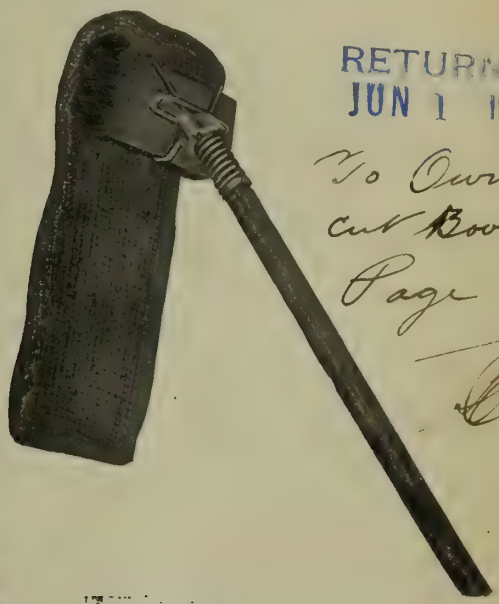

RETURNED
JUN 1 1905
To Owner
out Book 33
Page 73

Fig. 3.—Mop with Rag and Brush Attachment.

CUTLERY AND SWORDS.

Mr. R. G. How, representing the Wilkinson Sword Co., Limited, Sheffield, England, is calling upon the Toronto jobbers pushing the high-class cutlery and plate manufactured by this well-known company. He intends visiting Hamilton, London, Winnipeg and other cities in the interests of the firm and later on will open offices in Montreal and make his home in Canada, the development of the company's Canadian business warranting the establishment of a Canadian branch.

RAILS DUMPED IN CANADA.

THE New York Journal of Commerce announces that the steel rail pool—the combination of six of the largest rail mills of the United States to make prices and allot tonnage—had been officially dissolved. The dissolution is likely to have very little bearing upon prices of steel rails for several months at least, as the tonnage of the mills practically for the entire year 1905 has been allotted, and any reduction in prices of new business would mean a corresponding reduction on the old contracts. It is not reasonable to believe, therefore, that reductions in prices for early delivery will follow the formal—or nominal—termination of the agreement.

The official pool price has since 1901 been $28, and in that year the average price was $27.33 and in 1900, $32.29.

The dissolution of the pool follows the testimony of Judge Gary, chairman of the board of directors of the United States Steel Corporation and other steel men before the Senate Committee, that is investigating the railroad rate situation.

Judge Gary told the committee that in some instances the steel corporation sold its products cheaper abroad than in the U.S. The last sale of steel rails in Canada was made at $6 per ton less than the price in the United States. Judge Gary said products were sold abroad at cost in order to keep mills running to their full capacity, and this cheapens the cost to the domestic buyer.

CANADIAN AGENTS WANTED.

A strong concern with headquarters in Sheffield, manufacturing silver and platedware, hollow ware, cutlery, etc., desire to appoint an agent in Canada. Apply with references to Hardware and Metal.

An English manufacturer of saws is anxious to secure Canadian trade, and would like to appoint a Canadian agent. Applications and references should be sent to Hardware and Metal.

ANTI-TRUST SHOVELS!!



Dirt Shovels, Coal Shovels, Scoops, Spades.
Also Sidewalk Scrapers, Snow Shovels, and Furnace Scoops.

Write for our Illustrated Pamphlet

F. E. KOHLER & CO.
CANTON, OHIO, U.S.A.

The Hardware Specialties Mfrs.

PAINT, OIL AND BRUSH TRADES

LINSEED OIL QUOTATIONS.

OUR seed and oil markets continue to be dependent on foreign markets for their quotations, says the Paint and Oil Review. It is a matter of keeping seed here close up to the import basis of foreign seed, and no matter how high the London market may go our markets are quite likely to follow it. Therefore the foreign situation is of more than usual interest at this time. Dornbusch says that the Indian flaxseed crop this season is materially smaller than last season, and that in Northern India, which comprises all the Calcutta districts, the crop is said to have not exceeded 200,000 tons, or only about one-half last year's yield. Allowing that the Bombay yield will be a little in excess of last year, the total Indian crop looks like only figuring 275,000 to 300,000 tons, against 557,000 tons in 1904. 482 000 tons in 1903, and 343,000 tons in 1902. This may be an extreme view of the situation as regards the reduced yield of Indian seed, but it holds out no promise whatever of a big supply of seed. It is equally evident that there are very definite limits to an advance in flaxseed and oil in England and on the continent. The large oil buyers there are accustomed to taking on considerable quantities of oil when the market is at low ebb, but they refuse to buy heavily at high prices. Consequently a high market soon brings a check to the movement of oil and a reaction in prices usually follows.

A PERFECT PAINT REMOVER.

TO remove old paint, enamel, or varnish from surfaces by any other means than by the expensive and slow method of "burning off" has been for many years the subject of experiments and research, says the Oil and Colourman's Journal. A large number of paint and varnish removers have been brought before the public; but, in one form or another, they have always lacked something essential to make them of universal usefulness and ability. One paint remover acts well on the old paint but roughens the wood, if the paint has been applied on wood; another rusts or otherwise injures the iron or steel surface, if the old paint has been applied over such a surface; some stain the wood, some destroy the brushes, some give off an exhalation injurious to the health of the workman, and others again leave a deposit which destroys the fresh coat of paint; and so, for one reason and another, the dozens of paint removers brought out were, after proper tests, found wanting in one essential point or another, and could, in consequence, not be largely adopted for use. A perfect paint remover should fulfill the following conditions: It should soften a number of old coats of paint, varnish, or enamel thoroughly within a short period of time. It should contain nothing injurious to the health of the man handling it. It should not injure iron or steel, and should not injure, stain, or roughen the most delicate wood. It should not, in any way, affect injuriously the fresh coat of paint to be applied.

READY-TO-USE PAINT.

PREPARED or ready-to-use paint has slowly but steadily won its place and become the generally used paint of to-day. Its success is due mainly to two causes: first, to the inherent difficulties and disadvantages in buying paint materials, and mixing them by hand; and second, to the raising of the standard of prepared paints by most manufacturers.

The old crude hand-mixing of paint was bound sooner or later to be displaced by modern scientific processes—the wonder is that the old methods were persisted in so long in view of the economy and better results obtained by good prepared paint.

The man buying the raw materials is not in position to test the various ingredients to make sure that he is securing the best quality. The large manufacturer is forced to make careful tests in order to protect himself against being loaded up with inferior goods. Then the materials cannot possibly be combined in so accurate proportions, the pigment and oil so thoroughly incorporated, nor the colors made so uniform and true when the quantities used are largely guessed at and then mixed with a stick in a tub or pail as when each ingredient is weighed and measured, and mixed by exact formulas and ground in mills specially built for the purpose. It is hand work against machinery; guessing compared with scientific exactness.

TO DISSOLVE RED LEAD.

To test red lead, some painters take 10 grammes for a qualitative test, and dissolve it in nitric acid plus sugar, the whole being dissolved to a bulk of 60 c.c. That is a very clumsy way of testing. The best way to test red lead is to drop ½ gramme, or say 10 grains, into a test tube, with a few tiny crystals of oxalic acid, add nitric acid drop by drop, and heat gently, stopping until the action between each drop is finished, when the product is a mass of white crystals deluge it with water, and if pure it will all dissolve. If the result be doubtful, use hydrochloric acid instead of nitric acid plus oxalic acid, but no more acid than will convert it into chloride, then deluge it with hot boiling distilled water, say, ½ pint to 10 grains of red lead. Red lead then dissolves if pure.









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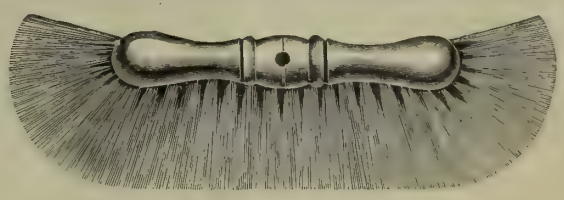
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MONTREAL and WINNIPEG

Paint and Oil Markets

QUEBEC.

Office of HARDWARE AND METAL,
232 McGill Street,
Montreal, May 26, 1905.

NO distinct feature worthy of mention has occurred on this market during the past week, excepting the continuation of the advance in prices of turpentine and linseed oil. Regarding the latter, reports received are rather conflicting, and no satisfactory conclusion can be formed, although it is generally believed that receipts up to date are light when taken into comparison with other years.

The crop is reported from reliable sources as being on an equal footing with that of last year, and it is expected this will be asserted at a later date when receipts become heavier and more frequent. Owing to the increased population and the absence of extensive operations last year on account of the backward season, the demand has received an impetus which no doubt will place prices at a high figure during the whole of the coming season. Linseed oil on the English market continues to fluctuate with the same regularity as heretofore, but aside from the fluctuations, a firmer condition exists. During the week an advance of 2c. per gallon has taken place, and yet the market has an upward tendency, and indications point to another advance. Rumors are current to the effect that local crushers are about to begin operations again, and this may have some effect in moderating prices. The strong demand still continues for white lead, and local crushers are operating to their full capacity, and, indeed, a few find it difficult to ship orders in time. General conditions continue to be brisk, well-assorted orders arriving as frequently as they have been in the habit of doing during the past few months.

Canadian Paris Green—No change has occurred on the price list. We quote as follows: Barrels, 15 1-4c.; arsenic kegs, 15c.; 50 and 100 lb. drums, 16c.; 25 lb. drums, 16 1-2c.; one pound packages, 17c.; half-pound packages, 19c.; one pound tins, 18c. Terms 2 per cent. discount for cash in 30 days or 90 days net.

English Paris Green—Pure English Paris green, petroleum barrels, 15 1-4c.; arsenic kegs, 15 1-2c.; 50 and 100 lb. drums, 16c.; 25 lb. drums, 16 1-2c.; one pound paper boxes, 17c.; one pound tins, 18c.; one-half pound paper boxes, 19c.; one-half pound tins, 20c. Terms, 2 per cent. off thirty days, or ninety days net from date of shipment.

Turpentine—Single barrels, 93c. per gallon; two to four barrels, 92c. per gallon; for smaller quantities than barrels, 5c. extra per barrel is charged. Standard gallon is 8.40 lbs. f.o.b. point of shipment, net 30 days.

Linseed Oil—Raw, one to four barrels, 52c.; five to nine barrels, 51c.; boiled, one to four barrels, 55c.; five to nine barrels, 54c. f.o.b. Montreal. Net 30 days.

Ground White Lead — Best brands Government standards, $4.70 to $4.85; No. 1, $4.45 to $4.60; No. 2, $4.20 to $4.35; No. 3, $3.87 1-2 to $3.97 1-2; No. 4, $3.50 to $3.60, all f.o.b. Montreal.

Dry White Zinc—Pure dry in casks, 7c.; in 100 lb. kegs, 7 1-2c.; No. 1 zinc, in casks, 6c.; in 100 lb kegs, 6 1-2c.

White Zinc (ground in oil)—Pure, 25 lb. iron, 7 1-2 to 10c.; No. 1, 6 1-4c.; No. 2, 5 1-4c.

Putty—Pure linseed oil 175 to 185. Bulk in barrels, $1.50; in 25 lb. irons, $1.80; in tins, $1.90; bladdered putty in barrels, $1.75.

Orange Mineral—Casks, 7 1-4c.; 100 lb. kegs, 7 1-2c.; smaller quantities, 8 1-2c.

Red Lead—Genuine red lead in casks, $4.50 in 100 lb. kegs, $4.75; in less quantities at the rate of $5.75 per 100 lbs.; No. 1 red lead, casks, $4.25; kegs, $4.75, and smaller quantities, $5.50.

Shellac Varnish—Pure white, $2.60 to $2.80; pure orange, $2.55 to $2.65; No. 1 orange, $2.30 to $2.45.

Mixed Paints—$1.20 to $1.40 per gallon.

Castor Oil—8 3-4c. to 9 1-4c. in wholesale lots, and 1-2c. additional for small lots.

Litharge—Ground, in casks, 5c.; in less quantities, 5 3-4c.; flake litharge, casks, $5.50; smaller quantities, $6 per 100 lbs.

Refined Petroleum—Trade continues unchanged. Sales are of a fair number, and trade in general has a bright aspect. We quote: American prime white 14 1-2c., American water white 16c.

ONTARIO.

Office of HARDWARE AND METAL,
10 Front street east,
Toronto, May 26, 1905.

ANOTHER advance is probable in linseed, although the figures quoted last week still hold firmly. The fluctuations in the English market continue, but the market in Canada seems to be a steadily rising one, with the possibility of local crushers operating again if much higher prices are asked and received. Turpentine holds firm at $1.00 in small lots, and 95c. in single barrels.

Mixed paints are active, although paint jobbers say that they looked for a larger trade, the building activity seeming to justify greater expectations.

Glass is unchanged, with little being imported and stocks light in the wholesales. There was a large meeting of the Belgian strikers last Sunday, but reports are conflicting as to the decision arrived at, the probability being that no

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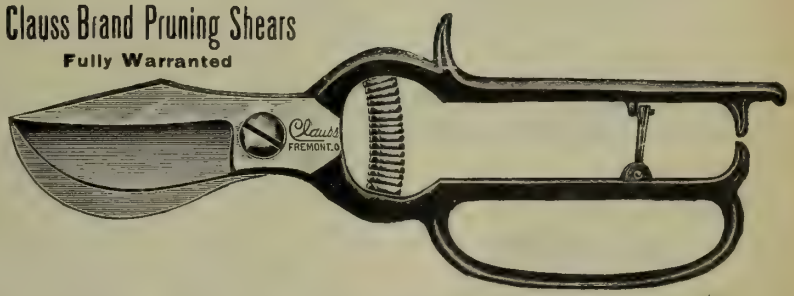
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Manufacturers of
PAINTS, COLORS AND VARNISHES
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FOR
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Paint for Engineers, Bridge Builders, Boat Builders.
First Hands for all Painting Material
THE CANADA PAINT COMPANY L'T'D

settlement will be arrived at until September. Although one or two furnaces are producing glass for Canada, the great demand elsewhere is causing higher prices, and there is little possibility of a drop. The strike has given a great impetus to glass production in England, Germany and France. It takes time, however, for trade to accustom itself to new channels, and stocks are likely to continue short.

White Lead—Ex-Toronto, pure white lead, $4.75; No. 1, $4.37 1-2; No. 2 $4; No. 3, $3.62 1-2; No. 4, $3.35 in packages of 25 lbs and upwards; 1-2c. per lb. extra will be charged for 12 1-2 lb packages; genuine dry white lead, in casks, $4.25.

Red Lead—Genuine in casks of 560 lbs., $4.50; ditto, in kegs of 100 lbs., $4.75; No. 1, in casks of 500 lbs., $4 to $4.25; ditto in kegs of 100 lbs., $4.50.

White Zinc—Genuine French V. M., in casks, $6.50 to $7; Lehigh, in casks, $6 to $6.50.

Shingle Stain—In 5 gallon lots 75 to 90c. per gallon.

Paris White—90c. to $1 per 100 lbs.

Whiting—60 to 65c. per 100 lbs; Gilders' whiting, 75c.

Shellac—Pure orange in barrels, $2.75 to $3; white, $2.85 to $3.10 per barrel; No. 1 (orange), $2.25.

Linseed Oil—Our quotations are: Raw, 1 to 4 barrels, 55c.; boiled, 58c.; 5 to 9 bbls., raw, 54c.; boiled, 56c.; Toronto, Hamilton, London, and Guelph, net 30 days. Advance of 2c. for delivery to outside points.

Turpentine—Single barrels, 95c.; 2 to 4 barrels, 94c.; 5 barrels and over, open, f.o.b. point of shipment, net 30 days. For less quantities than barrels, 5c. per gallon extra will be added, and for 5 gallon packages, 50c., and 10 gallon packages 80c. will be charged.

Paris Green—600 lb. barrels, 13 1-4c.; 250 lb kegs 13 1-2c.; 50 lb drums, 14 1-2c.; 1 lb. packets, 15c.

Glues—Broken sheet, in 200 lb. barrels, 5 to 25c. per lb.; cabinet glue, in barrels, 11 1-2 to 12c.; emery glue, in barrels, 15c.; bookbinders' ground, 11 1-2c.; finest American white, 19c.; No. 1 American white, 15c. per lb.

Putty—Ordinary, bladders in barrels, $1.65 to $1.75; pure linseed oil, $2 to $2.10; bulk in barrels, $1.50; pure, $1.95 to $2; 100 lb. kegs 25c. extra.

Plaster Paris—New Brunswick, $2 per barrel.

Liquid Paints—Pure, $1.20 to $1.35 per gallon; No. 1, $1.10 per gallon.

Barn Paints—70c. to 80c.

Bridge Paints—75c. to $1.

Castor Oil—English, in cases, 8 1-2 to 9c. per lb., and 10c. for single tins.

Refined Petroleum — Opening of navigation has brought an increase in business. We quote: Water white, 16c; Canadian prime white, 14½c.; American water white, 16½c. to 18½c. ex warehouse.

Crude Petroleum—A further drop is noted. We quote: Pennsylvania, $1.29; Ohio, 84c.; Somerset, 81c.; Indiana, 88c.; Canadian, $1.27.

Glass—See current quotations at the end of this issue.

WINDOW GLASS.
Montreal.

Reports began to flow in one day during the latter part of last week to the effect that the strike was practically settled, and that all tanks had once more begun operations. Lower prices were also quoted, shipments to take place in August and September. This news was certainly very valuable, and those commission dealers who were thus advised by cable started in at once to book orders. Some large orders were secured from the wholesale houses upon the understanding that orders would be fulfilled during the next three months. This proposition was forwarded to the agents in Belgium, and a few days later a reply to the effect that nothing definite could be promised was received. This was very unsatisfactory and tends to show that the previous reports were unfounded. Large-sized orders still continue to arrive. Prices are firm and continue unchanged. We quote: First break, 50 feet, $2.00; second break, $2.10; first break, 100 feet, $3.75; second break, 100 feet, $3.95; third break, 100 feet, $4.50; fourth break, 100 feet, $4.75; fifth break, 100 feet, $5; sixth break, 100 feet, $5.50; seventh break, 100 feet, $6.00; and eighth break, 100 feet, $6.50. Diamond star, first break, 50 feet, $2.30; second break, 50 feet, $2.50; first break, 100 feet, $4.40; second do., $4.80; third do., $5.75; fourth do., $6.50; fifth do., $7.50; sixth do., $8, and seventh do., 9. Double thick, first break, 50 feet, $3.45; second do., $3.75; first break, 100 feet, $6.75; second do., $7.25; third do., $8.75; fourth do., $10; fifth do., $11.50; sixth do., $12.50; seventh do., $14; eighth do., $16.50; ninth do., $18; tenth do., $20; eleventh do., $24, and twelfth do., $28.50.

TURPENTINE OPERATORS ORGANIZING.

The turpentine distillers of several southern states are perfecting an organization to fight the so-called "turpentine trust," and Mississippi will be one centre of operations. A meeting of distillers from Mississippi, Alabama, Louisiana and Texas was held at Hattiesburg, at which active plans for the campaign of aggression were mapped out. Organization for the eastern division of the southern states was recently perfected at Jacksonville, Fla., by the launching of the Naval Stores Export Co., capitalized at $4,000,000, 75 per cent. of the stock being held by producers and the remainder by their factors. A similar organization for the western division of the south will be perfected, and incorporated under the laws of Mississippi.

CATALOGUES AND BOOKLETS.

For the convenience of its readers HARDWARE AND METAL has opened its columns for the review of catalogues booklets or other such publications issued by manufacturers or wholesale dealers selling to the hardware, plumbing, machinery or metal trades. Retailers desiring such publications may also have inserted a note to that effect. It is requested that when any of the trade write for any booklet mentioned in these columns that they credit HARDWARE AND METAL as the source of their information.

Solid Porcelain Ware.

CATALOGUE "D," issued by the American Porcelain Co., New Brighton, Pa., is a well-bound 48-page booklet of fine coated paper on which are illustrated the "Perfection" line of solid porcelain ware. Only lavatories, drinking fountains, sinks and laundry tubs are shown, but the variety of these is large and the designs very handsome and practical. A feature of the catalogue is the revised price list. Buyers of this class of goods will find the catalogue of great service, and it can be procured by them by merely writing and mentioning this journal.

Lavatory Furnishings.

The Charles Parker Co., Meriden, Conn., who aim to be furnishers to the modern bathroom, have issued their 16th catalogue, an elaborate booklet of about 80 pages in which are illustrated fixtures for every article used in the up-to-date washroom. Dozens of cuts showing handsome designs of tumbler and combination holders, brush and soap traps, match safes, soap cups, sponge holders, towel racks and baskets, coat hooks, glass shelves, bathroom mirrors, bath seats, paper holders, etc., are included, the whole making a handy book for any plumber to have. Mention this paper if you write for a copy.

Bathroom Fixtures.

Catalogue No. 16, issued by the Mackie-Lovejoy Mfg. Co., 62 North Clinton street, Chicago, Ill., has been received, it illustrating a fine line of hardware specialties, such as can-openers, curling irons, garment hangers, etc., as well as bathroom fixtures. These latter include paper holders, towel racks and bars, soap dishes, brush and tumbler holders, etc., the line being a remarkably good one for smallwares. The catalogue comprises 100 pages and can be had for the asking if Hardware and Metal is mentioned.

Hardware Specialties.

A splendid assortment of novelties sold by hardwaremen is shown in a catalogue received from F. E. Kohler & Co., Canton, Ohio, a copy of which can be secured by sending a postcard and mentioning the name of this journal. The specialties shown include post hole diggers, hoes, rakes, corn planters, trowels, saw sets, door pulls, shovels, spades, scoops, scrapers, lawn sprinklers, etc., all being well illustrated in a booklet of 24 pages.

In Two Languages.

We draw the attention of our readers to the advertisement of the Mechanics' Supply Co., who have recently issued a new catalogue of plumbing material in English and French, which will be sent free to interested parties who mention this paper.

Why don't you try



Galvanized Sheets

Once bought, always bought by those who know value for money

MAKERS J. SUMMERS & SONS, Limited.
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H. & R. SINGLE GUN AUTOMATIC AND NON-EJECTING

2, 16 and 20 Gauge
Steel and Twist Barrels

Superior in Design, Workmanship and Finish, and the most popular Gun on the Market.

Simplest "Take Down" Gun Made



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Will please your customer. A pleased customer is an asset to any business.

No wood to rot, check or break. Special discounts to the trade.

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STYLE "A"



STYLE "E"

Style "A" with Double Reversible Steel Bow Lever, Patented Cream Breakers.

Style "E" with Hand and Foot combination drive and spring attachment, producing an easy and elastic motion.

The Pittman is quickly detachable from churn.

Both styles are fitted with our improved Steel Ball Bearings and mounted on Rigid Angle Steel Stands.

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SOLARINE LIQUID METAL POLISH
CASTILE CREAM Harness Soap.
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Mail Orders shipped same day received.
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OAKEY'S The original and only Genuine Preparation for Cleaning Cutlery. 6d. and 1s. Canisters
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Quick, clean. brilliant. Cleanses and polishes at one operation. Free samples with every order. Sample on request to any dealer.
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Your customer, the farmer, wants a fence that can be put up quickly and easily just when he wants it. Hand made fences cost too much when you figure the time it takes to build them, to say nothing of the hard work.
Why not sell "The Ideal," the best woven wire fence made? You can build up a permanent trade that will pay you as much as any line you are handling. Other hardware merchants are doing it. Why not you? The Ideal will give satisfaction to your customer and make him your friend.
Have you seen the Ideal? Let us send you a sample and catalogue showing why Ideal fence made from No. 9 hard steel wire throughout is the strongest and the best value.
Ask us about the Ideal all metal farm gate.
The McGregor-Banwell Fence Co., Limited,
WALKERVILLE, ONT.
Merrick, Anderson & Co., Winnipeg, Man.
Sole Agents for Man. and N.W.T.

STOVES AND TINWARE.

A SEASONABLE REMINDER.

A PAYING plan adopted by the Pease Foundry Co., Toronto, is the sending out of return post cards to their past and present customers, in the endeavor to work up business in the dull season of the year. Stove merchants in other districts can follow a similar system to good advantage, to the satisfaction of their customers and the profit of themselves.

Below we reproduce copies of the post cards used by the company named:

Dear Sir:—

It is our custom at this season to notify users of our "Economy" Heaters that they should be properly cleaned once a year. This should be done as soon as fires are out in the Spring. If you desire a competent practical man to do the work, please return the attached card with your instructions, and we will give the order our best attention.

We cannot undertake to clean furnaces at prices named after August 1st.

We trust that, in view of the small amount of our charge, our customers will not leave the cleaning of their furnaces to be done by incompetent and irresponsible men, who do not understand the construction and working of the apparatus.

Yours very truly
Pease Foundry Co., Limited.

PEASE FOUNDRY CO., Limited:

Please have the furnace in house No. .....cleaned and put in order for the coming season. I wish work done on or about .....

Name .....

Address.....

Prices for cleaning on or before Aug. 1st: Warm air furnace, $1; Hot water comb. heater, $1.50; Steam combination heater, $2.50.

STOVE SUGGESTIONS.

How has your experience been in selling stoves equipped with a certain number of utensils—say a frying pan, a tea kettle, a coffee pot, a wash boiler, etc.? Some dealers say these things make sales easier while others say not.

Work the installment plan of selling ranges. In this way you can sell stoves to people that haven't the cash and whom you would not like to sell to be "paid for in the Fall." If installments are due every month you will have an excuse for keeping in touch with them, anyway, even if you do not get your money until October.

Storing stoves through the Summer is a paying part of the business. All you need is a little room somewhere—a good, tight barn will do, or perhaps you have room on the second floor or in the tinshop. You can make a little in taking the stove down and putting it up in the Fall, too. This also gives you a chance to make any repairs that the stove will need.

A popular contest in the cities and one frequently used is to have the girls under a certain age—say twelve or fourteen—compete in making biscuits or cake. Each Saturday afternoon the girls that wish to enter are put at work in the window mixing their dough, the baking being done in a certain kind of a range, of course. As a prize a small but perfect model of the range is given. This is a great feature to draw crowds.

Many a man would pay five dollars for some one to take down his heating stove, haul it away, bring it back and set it up in the Fall when wanted, if he knew anyone who would do it. Why don't you? There is money in it—if you do not have to pay too much for your storage space. Probably you can rent an unused storeroom or a good dry barn cheaply for the Summer. Or, maybe you have room upstairs in your store. If the basement is perfectly dry it will do, but avoid it if there is ever a suggestion of dampness there. It will make trouble for you if you try storing stoves in it.—The Hardware Trade.

THE LYON SLIP-ON HANDLE.

William I. Lyon, Waukegan, Ill., are introducing to the hardware trade the Slip-on Handle which we illustrate. It



The Lyon Slip-on Handle.

is designed to replace all broken handles on tea kettles, pails, food choppers and cooking utensils that have lost a handle and thereby made useless. In appearance the handle is a cylinder of japanned wood, bound at either end by two wires. It is made of maple wood. The ends of the pieces taper slightly which enables them to have rings of music wire, which is high in carbon, to give them elasticity. The cut shows the working of the device. Directions for attaching are as follows: Pry the handle just far enough apart to admit the wire bail, press the cut rings open sideways so the bail will pass through, put one ring on each side, hold the handle firmly together and slip the ring over the tapering end to the groove, with the opening in ring in the centre of the wood, then slip the other ring on so that the opening in the ring will be on the opposite side of the handle. The handle is convenient to merchants having tubs, etc., damaged in shipment.

CONTRACT FOR HEATING.

The James Smart Mfg. Co., Brockville, have secured the contract for heating and ventilating the new Methodist church at Berlin, using two Kelsey warm air generators for the purpose.

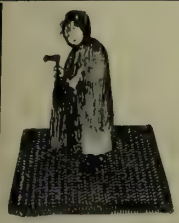
STEEL TROUGHS



Hardware Dealers

will find our Hog and Water Troughs well worth handling. They are the result of 5 years' experimenting, and we now claim to have the best proposition in hog, whey and frost-proof troughs on the market. Being manufactured of specially imported Stamped Heavy Steel, they are practically indestructible. Our terms to dealers are very liberal, and we give specific territory besides advertising and literature. Let us hear from you as territory is going fast.

THE STEEL TROUGH & MACHINE CO., - TWEED, ONT.



A Popular, Profitable and Seasonable Line to Handle.

Dennis' Flexible Steel Wire Door Mats

DENNIS WIRE AND IRON CO.

Send for Catalogue. LONDON, ONT

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OUR AGENTS

MESSRS. WAYLAND, WILLIAMS & DADSON

28 BOARD OF TRADE BUILDINGS, MONTREAL

are carrying a stock of our goods and will be pleased to have your inquiries for **Hex. and Square Cap Screws, Square Head Set Screws, Bright Washers,** and **Bright and finished Hex. Nuts.** The quality is right, and we can give you good deliveries.

ACME LATHE & PRODUCTS CO., LTD.

MANCHESTER.



STOVEPIPE

Scheip's Patent

Nested 25 lengths in crate

This is the only perfect working Knock-Down Pipe made. Will not telescope.

Manufactured only by

E. T. WRIGHT & CO., Hamilton, Ont.

THERE IS NOTHING LIKE IT

There is nothing as good or even nearly as good as the

METALLIC ASH-SIFTER

It is simply constructed yet it saves a world of labor; and the best of all, **IT LASTS.**

HAVE YOU SEEN ONE? WRITE FOR CIRCULAR.

C. M. CUTTS & CO., Sole Makers, **Toronto Junction, Ont.**



No merchant can afford to sell a "gold brick." Every article he sells must pass the "acid test" if he would have his business live and grow.

If you sell cooking ranges and want to build business you can do it with the

Imperial Oxford Range

It lives up to every claim we make, for it passes the "acid test." Ask any one who has used an Imperial Oxford their opinion of it. That will convince you which range will please your customers most.

The Gurney Foundry Co., Limited

TORONTO WINNIPEG VANCOUVER

The Gurney-Massey Co., Limited, Montreal,
The Gurney Standard Metal Co, Limited, Calgary, Alta.

BUILDING AND CONSTRUCTION

BUILDING CONTINUES ACTIVE.

REPORTS from all parts of Canada are to the effect that new structures are going up rapidly and permits are being issued at an unprecidented rate. The activity is general and is not of the nature of a boom which can be pricked with a pin and subside with disastrous effects to all concerned. The influx of new population and the industrial development of the country warrants the energy being directed in this branch of trade.

This week's report of permits issued in Toronto for 64 new buildings totals to about $360,000.

CEMENT POSTS.

The item of fence posts has become an important consideration on many farms, where the timber supply has been exhausted. In many places it is almost impossible to go out and buy posts at anything like reasonable figures. So we see on farms here and there an attempt made to use substitutes for the wood post, such as steel, stone and cement. Iron and steel posts do not seem to be practical on account of their short life, as well as cost. Stone posts come high, unless it is convenient to have them quarried out on the farm nearby. The cement post comes nearer filling the bill than anything else.

BUILDING NOTES.

The Winnipeg Coffee & Lodging House Association are to erect a modern four-storey lodging house.

A permit has been issued for a new $10,000 school at Vancouver.

The Massey Harris Co. are building a large warehouse at Foxwarren, Man.

The Canadian Moline Plow Co. are erecting a $40,000 warehouse at Winnipeg.

D. S. Perrin & Co., Winnipeg, are to erect a new warehouse at Winnipeg.

The Fensom Elevator Works, on Duke street, Toronto, have been purchased by the Capewell Horse Nail Co., who purpose using the premises for manufacturing purposes. The price paid was in the neighborhood of $40,000.

H. T. Knott has secured the contract to build the new $10,500 warehouse for the Melrose Co., Victoria.

A two-storey addition is to be made to Murray's planing mill at Winnipeg.

R. & J. Poag, Hamilton, are to build two brick houses on Wentworth street to cost $3,400, and one on York street to cost $2,200.

The Dominion Radiator Co., Toronto, are to erect large warehouses and offices in Winnipeg.

The following permits have been issued for new buildings at Toronto Junction: Wm. Stuckey, dwelling, Louisa street, $2,200; H. Watkinson, two stores, Dundas street, $3,300; E. Klinck, two houses, Hook avenue, $4,200; James Archer, house, Maria street, $1,000; Backers and Parsons, dwelling, Louisa street, $1,800; George Denbeigh & Son, dwelling, Louisa street, $1,800; Charles Proctor, two houses, Quebec avenue, $4,400.

The Grand Trunk Railway are to erect a million-dollar steel grain elevator at Midland.

The Methodists of Napanee have decided to tear down their old church and replace it with a new one to cost about $20,000.

L. G. Wing has awarded the contracts for his new $90,000 theatre at Vancouver.

BUILDING PERMITS.

Montreal.

A. Groll, dwellings, 2096 St. Catherine street, $6,000.

J. Leduc, dwellings, near 604 Chambord street, $2,000.

O. Soucey & Son, dwellings, 245 Sanguinet street, $3,500.

P. J. Dumont, dwellings, 537 St. Andre street, $1,500.

Joseph Mercier, dwellings, 1776 Papineau avenue, $1,500.

John Rowland, dwellings, 129 Rushbrooke street, $5,000.

Mrs. G. Harkins, dwellings, 1242 St. Catherine street, $4,000.

E. Jacques, dwellings, 17 to 19 Mitcheson street, $3,000.

J. Page, dwellings, Forsythe street, Hochelaga ward, $2,500.

M. Gauthier, dwellings, Fullum street, St. Mary's ward, $6,000.

Estate Jules Lacine, dwellings, 251 to 257 Dufresne street, $2,250.

J. U. Cartier, dwellings, Park avenue, St. Lawrence ward, $7,500.

J. F. Riepert, dwellings, Hope avenue, St. Andrew's ward, $15,000.

E. Prenoveau, dwellings, St. Denis street, St. Denis ward, $2,000.

Mrs. Lea Gareau, dwellings, Mentana street, Duvernay ward, $1,650.

F. Lessard, dwellings, St. Andre street, St. James' ward, $3,500.

Cunningham and Wells, alterations to dwellings, 23 Murray street, $5,000.

J. W. Guerin, dwellings, corner of Marie Anne and La Salle streets, $3,000.

Estate of Alf. Benoit, alterations to dwellings, 80 St. Antoine street, $4,000.

City and District Savings Bank, alterations to branch office, 780 St. Lawrence street, $2,000.

Canadian Pacific Railway, alterations to Windsor Station, Seigneurs street, St. Andrew's ward, $2,500.

Protestant Board of School Commissioners, educational dwelling, St. Denis street, Lafontaine ward, $42,000.

D. Leclaire, dwellings, St. Hubert street, Lafontaine ward, $4,000; dwellings, Chambord street, St. Denis ward, $4,000; dwellings, Chambord street, Duvernay ward, $3,000.

Toronto.

Rev. A. Sims, residence, Simpson avenue, $2,900.

James E. Osborne, stable, 50 Crescent road, $1,800.

James Ryrie, residence, 56 South drive, $4,500.

Donald Bain, residence, 488 Dovercourt road, $4,000.

John W. Cowan, warehouse, Mincing lane, $30,000.

Joseph Vitale, three dwellings, Elm street, $7,000.

R. Jeffery, dwelling, east side Grant street, $1,550.

Wm. P. Playter, dwelling, Huntley street, $3,300.

Thomas Robertson, dwelling, Dearborn avenue, $1,400.

D. Conboy, factory, Don Improvement road, $60,000.

John N. Lake, dwelling, 410 Jarvis street, $5,500.

S. B. Bagshaw, dwelling, 479 Marion street, $3,400.

James W. Barry, dwelling, Balmoral avenue, $4,000.

John Peace, addition, McMaster avenue, $4,000.

C. German, residence, Broadview avenue, $3,500.

Mrs. A. Gibson, dwelling, Hamburg avenue, $1,000.

T. D. Liddell, dwelling, 9 Golden avenue, $2,000.

G. Crowther, dwelling, 517 Eastern avenue, $1,500.

Mrs. Wm. Wallace, dwelling, 1 Midland place, $1,300.

Miss Jane Baily, residence, 118 Spadina road, $5,000.

C. James, dwelling, north side Pearson avenue, $2,500.

David Garrow, residence, Roxborough street west, $5,000.

D. McDonald, residence, 1288 King street west, $7,500.

Jaffery H. Hunter, dwelling, 54 Elliott street, $1,800.

John W. Trotter, dwelling, 36 Badgerow avenue, $1,400.

Mrs. M. Edy, dwelling, south side Olive avenue, $2,500.

George Sheahan, dwelling, north side First avenue, $1,100.

William Murray, one pair dwellings, Kendal avenue, $6,000.

S. W. Bottomley, one pair dwellings, Albany avenue, $4,000.

Gordon, MacKay & Co., storehouse, Atlantic avenue, $6,000.

F. L. Beecroft, dwelling, west side Dovercourt road, $3,300.

Richard Grundy, one pair dwellings, Parkman avenue, $2,300.

W. Smith, dwelling, east side Westmoreland avenue, $1,800.

Walter Benson, one pair dwellings, Crawford street, $6,000.

J. H. Watkins, store and dwelling, Queen street west, $3,000.

Thomas Berrie, store and dwelling, 349 Broadview avenue, $3,600.

W. H. Holmes, dwelling, west side Palmerston avenue, $1,400.

Wm. Hilborn, one pair dwellings, north side Walker avenue, $4,500.

T. J. Sproule, two dwellings, east side Westmoreland avenue, $1,200.

Kidney & McKelvey, one pair dwellings, Delaware avenue, $4,800.

"DOMINION BRAND"
TARRED FELT
(THE OLD RELIABLE QUICK SELLER)

ROOFING PITCH
COAL - TAR

WHEN YOUR TRADE DEMANDS **THE BEST** ROOFING MATERIALS

CONSULT THE WELL-KNOWN MANUFACTURERS

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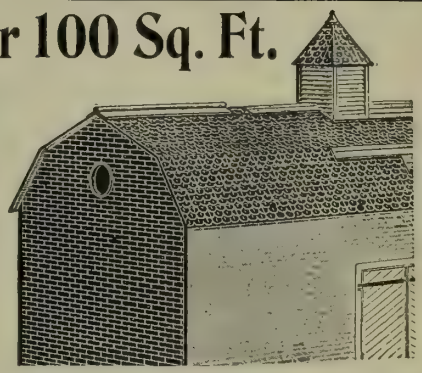
Steel Roofing and Siding, $2.00 per 100 Sq. Ft.

Painted red on both sides. Most durable and economical covering for **Roofing or Siding, for Residences, Houses, Barns, Elevators, Stores, Churches, Poultry Houses, Cribs, etc.** Easier to lay and will last longer than any other covering. Cheaper than wood shingles or slate. No experience necessary. A hammer and snips are the only tools required. It is semi-hardened high grade steel. **Brick or Stone Siding at $2.00 per 100 Square Feet. Pedlar's Patent Steel Shingles at $2.50 per 100 Square Feet.** Also **Corrugated Iron, Painted or Galvanized,** in sheets 96 inches long. **Beaded and Embossed Ceilings. V Crimped Roofing.** 2000 designs of Roofing, Siding and Ceilings in all grades. Thousands of buildings through the Dominion covered with our Sheet Metal Goods making them

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Send in your order for as many squares (10 x 10 feet) as you require to cover your new or old building: The very best roofing for this climate. We can suppy **Eave Trough, all sizes, Corrugated or Plain Round, Conductor Pipes, Shoes, Elbows, Spikes, Tubes.**

All goods sh pped day after order is received. We are the largest concern of the kind under the British Flag. Established 1861. Capital Invested $150,000.00.

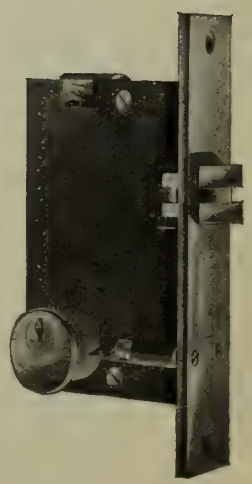


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Eastern Warehouse—767 Craig St., Montreal, Quebec.

Are We Right?

Are we right when we say that you look for the best wares, ***buy*** the best wares? If not, then there is no use in our hammering away at the superior qualities of the



GURNEY CYLINDER LOCKS

We wish to sell ***Gurney Cylinder Locks*** on their merit only, and if ***merit*** counts with you ***Gurney Cylinder Locks*** will be sold to ***you.***

Our catalogue will tell you a few of the things that made our ***Locks*** famous.

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HAMILTON

BRANCHES:
Winnipeg—Tilden, Gurney & Co., Limited
Vancouver—The Gurney, Tilden Co., Limited

AGENCIES
Montreal—Nicoll & Barr, 86 St. Peter St.
St. John—Nicoll & Barr, 38 Dock St.

Eliza Grinnell, office and dwelling, east side Broadview avenue, $2,000.

James Rae, one pair stores and dwellings, Queen street west, $4,000.

George Nicholson, two pairs dwellings, west side Jones avenue, $4,000.

George Harrington, two dwellings, south side Victor avenue, $3,000.

Joseph S. Montgomery, one pair dwellings, Bathurst street, $7,000.

Herbert Tweedie, one pair dwellings, 12 and 14 Parkview avenue, $3,000.

E. F. Leidy, one pair dwellings, 662 and 665 Gerrard street east, $2,600.

James Lumbers, addition to warehouse, 67 Front street east, $6,000.

W. G. Chisholm, one pair dwellings, 26 and 28 Delaware avenue, $4,000.

Wm. Davies Co., dwelling and hose house, corner Front and Vine streets, $3,000.

John Elliott, alterations to stable, corner Yonge and Cottingham streets, $3,000.

J. McCarron, store and dwelling, corner Bloor atreet and Manning avenue, $2,200.

J. H. Aberdeen, one pair dwellings, corner College and Gladstone avenue, $4,800.

Toronto Railway Co., building for electrical purposes, High Park avenue, $22,000.

Toronto Gas and Gasoline Engine Co., Limited, machine shop, Dufferin street, $17,000.

T. Crow, carriage factory and blacksmith shop, corner Isabella and Yonge streets, $15,000.

Pease Foundry Co., Limited, factory, between Shaw and Ossington, south of C.P.R. crossing, $40,000.

The Hanover Portland Cement Co., Limited

HANOVER, ONTARIO

Manufacturers of the celebrated **"Saugeen Brand"** OF PORTLAND CEMENT.

Prices on application.

"THE EMLYN" SAW BENCH

Made in 6 sizes. Best value obtainable. Specially designed for export With or without "Emlyn" Patent Guard. Sole maker—

CHARLES D. PHILLIPS,

Cables— "Machinery," Newport.

Emlyn Engineering Works NEWPORT, MON., ENGLAND

Don't Forget the Name...

NEWMAN'S INVINCIBLE FLOOR SPRINGS

Strong, Quick, Reliable, Effective.

Will close a door against any pressure of wind. Far ahead of ordinary door springs, pneumatic or otherwise. Ask your wholesaler.

W. NEWMAN & SONS, Birmingham.

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"HERCULES" BRAND PORTLAND CEMENT

Manufactured by

THE GREY & BRUCE PORTLAND CEMENT CO.

OWEN SOUND

J. McLAUCHLAN, President.

A PERMANENT and Handsome Roof.



Arrow Brand Asphalt Ready Roofing

Will bring you profitable trade and satisfied customers. Comes in rolls ready to lay, all ready covered with gravel. Requires no experience to lay, and lasts for years without further attention.

A. C. JENKING & CO, Sole Agents,

Room 215 Coristine Building, - MONTREAL.

Sole agents being appointed in each district. Write to-day.

O-SO-EZY

Gives Life and Durability to Hardwood Floors (new or old).

PRICE—IN BBL. LOTS $1 00 PER GAL. SINGLE GALS., $1.25.

DEALERS SELL TRY IT. For further particulars write

O-So-Ezy Mfg. Co., Limited, 205 St. James St., Montreal



The 50-foot Awning we made for Ryrie Bros., Toronto

AWNINGS

For Warehouses, Offices and Private Houses

VERANDAH CURTAINS

We make every variety and shape and make them in the best manner.

Why not have the best if you pay no more than inferior makes cost? Send dimensions for price.

WM. BARTLETT & SON, 16 Adelaide St., West, Toronto. PHONE MAIN 2828

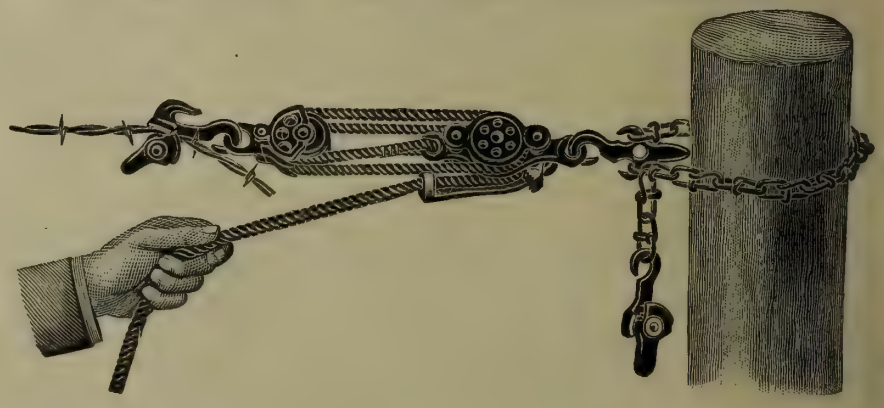
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OLD STAND-BY

None better on the market unless it is the Triumph.

If your Jobber cannot supply, write us for prices.

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WILCOX MFG. CO. OF ONTARIO, Limited, London, Ont.

Toronto Rubber Roofing

WEATHER-PROOF,
ROT-PROOF,
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Best Prices to Trade

All material complete in each Roll.

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LEADING MANUFACTURERS OF HIGH-GRADE, CROSS-CUT, HAND, BAND CIRCULAR, HACK, BACK, WOOD AND SMALL SAWS OF ALL KINDS.

Write for Catalogue and Prices.

The Supremacy of Science

The supremacy of science is evinced most worthily in the mammoth changes wrought where

MAXIMUM LIGHT GLASS

has been employed. **Dark** places made **Light.** **Light** places made **Lighter.** Ordinary devices would not produce this, because they are either placed as reflectors or awnings, or are dependent upon the refractory property of a prism which, in most cases,—cases which **"Maximum Light Glass,"** embodying new principles, soon triumphs over—is ineffective. Are you handling **"Maximum Light Glass?"**

SEND FOR SAMPLES TO-DAY.

Sole Canadian Agents:

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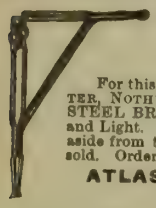
STREET PAVING and SIDEWALKS a SPECIALTY

SILICA BARYTIC STONE CO.

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Water Proof Floors for Malt Houses, Breweries, Slaughter Houses Cheese Factories, Cellar, Stable Floors, etc

Head Office:
Ingersoll, Ontario.
Walter Mills, General Manager
Ask for quotations for Septic Tanks.



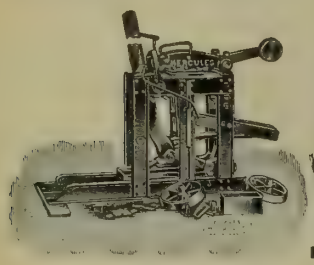
Will Hold Up a Shelf!

That's what a shelf bracket is for.

For this purpose there can be NOTHING BETTER, NOTHING CHEAPER than the BRADLEY STEEL BRACKET. It is well Japanned, Strong and Light. The saving in freight is a good profit, aside from the lower price at which the goods are sold. Order direct or through your jobber.

ATLAS MFG. CO.,
New Haven, Conn., U.S.A

Bricks! Bricks! Bricks!



If you know o anyone intending to make bricks, induce him to use one of our

Hercules Handpower Press

IT WILL PAY YOU

No previous experience needed.

BOSSON BROS., Engineers

P. O. Box 198 BRUSSELS (Belgium)

Cable Address "FORWARD BRUSSELS."
Indents through European merchants.

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Salt Glazed Vitrified



Double Strength Culvert Pipe a Specialty.

THE CANADIAN SEWER PIPE CO.

HAMILTON, ONT. TORONTO, ONT.
ST. JOHNS, QUE.

"THE MONARCH"

An A1 Block Machine, complete in every detail, and sold at a price which brings it within the reach of all.

For circulars and further information write

CONCRETE BLOCK MACHINE CO.

32 Church St., - Toronto.

INDUSTRIAL GOSSIP

HARDWARE AND METAL would be pleased to receive from any authoritative source industrial news of any sort, the formation or incorporation of companies, establishment or enlargement of mills, factories, foundries or other works, railway or mining news. All correspondence will be treated as confidential when desired.

FOR some time rumors of an amalgamation of the leading rubber-manufacturing concerns in Canada have been heard, and the charter granted to the Commercial Rubber Co. of Canada is considered proof that the merger is well under way. The provisional directors of this new company are as follows: Sir Montagu Allan, president of the Canada Rubber Co., Montreal; S. H. C. Miner, president of the Granby Rubber Co.; H. D. Warren, president of the Gutta Percha & Rubber Co., of Toronto; James Robinson, president of the Maple Leaf Rubber Co., of Port Dalhousie, and ex-Ald. C. F. Smith, D. Lorne McGibbon, general manager of the Canada Rubber Co.; and E. A. Wright, secretary-treasurer of the same company, are named in connection with these respective positions in the new company. The purpose of the company, as stated in the application for incorporation, is to buy the property of the defunct Boston Rubber Co., of St. Jerome.

The Fessenden Wireless Telegraph Co. is seeking incorporation at Ottawa.

The new cement and sand brick plant at Stratford has commenced operations.

Belleville Hardware Co. have been compelled to enlarge their manufacturing plant.

Lake of the Woods Milling Co. are installing an electric plant at their Keewatin mill.

Ingersoll has voted a loan of $20,000 to the Ingersoll Nut Co. The new industry will employ 40 men.

Port Arthur is endeavoring to secure the proposed western factory of the Henderson Roller Bearing Co.

J. R. Booth, Ottawa, is to establish large pulp and paper mills at Chaudiere in addition to his present plant.

Ogilvie Flour Mills Co. have secured 1,000 feet frontage on the Lachine Canal and will make extensive additions to their plant.

Standard Windmill & Mfg. Co. have leased the unusued G.T.R. shops at Whitby and will install machinery immediately.

Ottawa citizens have voted by a substantial majority in favor of the purchase of the plant of the Consumers' Electric Co.

The Canadian Manufacturers' Association is opposing the proposition to spend $10,000,000 in building a tunnel to Prince Edward Island.

Mr. Whitlaw, of the American Radiator Co., was in Brantford this week closing arrangements for the starting of the new plant in that city.

Farmers' Co-operative Harvesting Machine Co., Whitby, are making their first car load shipments of Clokey spring steel binders to the Northwest.

Ferguson & Bull, Woodstock, N.B., have purchased the Imperial Packing Co. factory and will install power and increase the output of tubs and barrels.

The running of the Temiskaming Railway by electricity and the sale of surplus power is provided for by a bill introduced into the Ontario Legislature by Hon. Mr. Matheson.

The Giant Grip Horseshoe Co. are making arrangements to establish a branch factory at Port Arthur. From 20 to 40 hands will be employed to commence with. The company's main factory is at Duluth, but they also have a branch at Little Falls, Minn.

Guelph Foundry Co. have submitted a proposition to the city which, if accepted, will mean the abandonment of their present premises and the erection of a brick and steel factory, 600 x 60 feet. Their pay roll will also be increased from $75,000 to $125,000.

Fort Frances has purchased a double cylinder Nott fire engine, three hose reels and chemicals and 2,000 feet of hose from the Winnipeg Rubber Co. Glenboro and Prince Albert have also purchased hose and reels, while Regina is also improving its fire equipment.

Taylor-Forbes Co., Limited, Guelph, have nearly completed the installation of an electrical power plant with 250 kilowat generator and seven motors, costing $12,000. Their new foundry for manufacturing radiators is 348 feet long by 80 feet wide and 125 men will be employed.

During the present season at least 100,000 tons of Bethlehem Yale and New Era ore will be shipped from Ashland, Wisconsin, to the Algoma Steel Co., at the Canadian Soo. Considerable ore will also go to the Canada Furnace Co. at Midland. This port has never before shipped over one-third this amount to Canadian ports, the business starting in 1902, with a half dozen cargoes. The quality of ore being sent to the Canadian furnaces is of the very best grade Bessemer, valued at $4 per ton. The Canadian ships Iroquois, Monkshaven, Leafield, Strathcona, Paliki and Barlum are now engaged in the trade.

It is reported that the control of the Canadian Tin Plate and Sheet Steel Co. has passed into the hands of J. W. Allison and G. H. Meldrum, of New York, and that with the co-operation of Montreal and Toronto capitalists manufacturing will be undertaken at Morrisburg, Ont. If the plans materialize a large plant will be erected and the company reorganized with a capital of $1,500,000. Thomas Davidson & Co., of Montreal, manufacturers of enamelware, are said to be interested. Work should begin next October. Raw material will be furnished in bars from Sydney. John Main, vice-president of the Polson Iron Works, and W. K. George, president of the Manufacturers' Association, are said to be interested.

The official announcement is made that the locomotive plant of the Locomotive & Machine Co. of Montreal, has been increased so that it is now able to turn out 10 locomotives a month, or 120 a year. There are now orders on hand for 100 locomotives. The structural steel

plant is being increased sreadily and it is intended that it should finally have an output of 1,000 tons a month.

At the late session of the Nova Scotia Legislature an act was passed incorporating the Pictou Smelting Co., for the purpose of utilizing the copper smelting furnace erected at Pictou a year ago by the Crown Copper Co. There are those who think that Nova Scotia presents an interesting field for the erection and development of a large smelting and refining business, due to the fact that she has abundance of coal.

The Canadian General Electric works at Peterboro have just turned out the largest generator ever built in the world. It is of 12,000 horse-power, and is built for the Toronto and Niagara Power Co. The next largest was manufactured in Pittsburg by the Westinghouse Co. for the Ontario Power Co. The Peterboro works is now equipped to build the largest and heaviest class electrical machinery. Several more of these 12,000 horse-power generators will be built at Peterboro.

The C.P.R. has closed a contract for the construction of 45 miles of road from Spencer's Bridge on the main line, 180 miles east of Vancouver, to the Nicola Coal Mines, following up the Nicola River. This road is the commencement of the proposed road to Midway, some 200 miles from Nicola Mines, and no doubt this further extension will soon be built. The Nicola Valley embraces a fine ranching and fruit growing country, while the importance attached to the development of the coal mines at Nicola is considerable.

Companies Incorporated.

Frothingham & Workman, Limited, Montreal, have reduced their share capital from $550,000 to $453,000.

Canadian Ladder Co., Limited, Toronto; share capital, $40,000; purpose, to manufacture ladders, fire escapes, etc. The directors are: R. Robinson, J. M. Turner, J. J. Ward, W. W. Stoddard and W. R. Pearce, all of Toronto.

Duncan Electrical Co., Limited, Montreal; share capital, $90,000; purpose, to manufacture electrical supplies. The directors are: C. Duncan, W. P. Bear, W. King, F. Loomis, and M. L. Williams, all of Montreal.

Gutteridge-Sullivan Co., Limited, Sarnia; share capital, $40,000; purpose to manufacture brick machinery, etc. The directors are: T. P. Bradley, S. A. Armstrong, T. J. Gordon, J. R. Pierdon and J. Sullivan, all of Sarnia.

Selkirk Electric Light & Power Co., Limited, Selkirk, Man.; share capital, $50,000; purpose, to manufacture power for lighting and heating. The directors are: R. M. Stuart, H. Pollard, J. Y. Haig, of Winnipeg, and J. Stalker, of Selkirk.

Canadian White Co., Limited, Montreal; share capital, $1,000,000; purpose, to manufacture electrical machinery and do construction work. The directors are: W. G. Ross, R. C. Smith, R. C. Grant, W. W. Skinner and W. F. Shipman, all of Montreal.

Jas. Stuart Electric Co., Limited, Winnipeg; share capital, $100,000; purpose to acquire the business of the E. B. Harrison Co., Limited, and deal in electrical power and supplies. The directors are: J. Stuart, R. M. Stuart, J. T. Haig, F. W. Louthood and I. Dillon, all of Winnipeg.

Pedlar Talks

"KEEPING EVERLASTINGLY AT IT BRINGS SUCCESS."

No. 6. OSHAWA, ONT. May 27, 1905

WHAT WE HAVE DONE

We have done a good deal for the building trade by focussing our energy and our experience on such a beneficial manufacture as **PERFECT METAL LATH**. We have reduced the cost of building, reduced the risk of fire. We have increased the durability of walls, increased the usefulness of plaster.

WHAT WE ARE DOING

We are manufacturing **PERFECT METAL LATH** and selling it in our Branches all over the British Empire. As **PERFECT METAL LATH** is only 10c. a square yard, it is within the reach of all builders. Its positive key makes it reliable ; its ease of application makes it efficacious ; its resistance of all climatic change makes it superior to wooden lath—wooden lath is **unsanitary**. **PERFECT METAL LATH** is **sanitary**.

WHAT WE WILL DO

We will "keep everlastingly at it," until every hardware merchant in Canada, at least, knows about **PERFECT METAL LATH** and its wondrous workings. It is the very line that a live merchant should carry. Certain contractors have not yet heard of **PERFECT METAL LATH**—these, may-be, **your** very customers in other lines. Are you going to "be up and doing"? Better write for Sample and Booklet. **Note the increase in offices.**

The Pedlar People

of OSHAWA, ONT.

MONTREAL—767 Craig St. OTTAWA—423 Sussex St. TORONTO—50 Yonge St.
VANCOUVER, B.C.—615 Pender St. SYDNEY, AUSTRALIA—189 Clarence St.
CAPE TOWN, S.A.—141 Longmarket St.

WRITE YOUR NEAREST OFFICE.

WE WANT YOU

THIS IS THE BRAND

When You

"FOR EVERY $1.00 GET 100 CENTS WORTH."

place your next order, to **remember** and **value** the brand of goods which has been known for years throughout all Canada for its **quality** and **popularity.**

ALEX. McARTHUR & CO., Limited, MONTREAL

CURRENT MARKET QUOTATIONS.

May 26, 1905.

These prices are for such qualities and quantities as are usually ordered by retail dealers on the usual terms of credit, the lowest figures being for larger quantities and prompt pay. Large cash buyers can frequently make purchases at better prices. The Editor is anxious to be informed at once of any apparent errors in this list, as the desire is to make it perfectly accurate.

METALS.

TIN.

Lamb and Flag and Straits—	
56 and 28-lb. ingots, 100 lb.	$32 00 $33 00

TINPLATES.

Charcoal Plates—Bright.

	Per box.
M.L.S., equal to Bradley—	
I C, usual sizes	$6 50
I X "	8 00
I X X "	9 50
Famous, equal to Bradley—	
I C	6 50
I X	8 00
I X X	9 50
Raven and Vulture Grades—	
I C, usual sizes	4 25
I X "	5 00
I X X "	5 75
I X X X "	6 50

"Dominion Crown Best"—Double Coated, Tissued.

	Per box.
I C	5 50
I X	6 50
I X X	7 50
I Allaway's Best"—Standard Quality.	
I C	4 50
I X	5 50
X	6 50

X Coke Plates—Bright.

Bessemer Steel—	
I.C., usual size, 14x20	3 50
I.C., special sizes, base	3 75
20x28	7 50

Charcoal Plates—Terne

Dean or J. G. Grade—	
I.C., 20x28, 112 sheets	7 50
IX., Terne Tin	10 50

Charcoal Tin Boiler Plates.

Cookley Grade—	
X X, 14x56, 50 sheet bxs.	7 00
" 14x60, " "	
" 14x65, " "	

Tinned Sheets.

72x30 up to 24 gauge	7 25	7 50
" " 26 "	7 75	8 00

IRON AND STEEL.

	Montreal.	Toronto.
Common bar, per 100 lb.	1 80	1 80
Forged iron "	2 05	2 05
Refined "	2 20	2 05
Horseshoe iron "	2 02½	....
Hoop steel, 1½ to 3 in. base	....	....
Sleigh shoe steel "	1 97½	....
Tire steel "	2 07½	....
T. Firth & Sons, tool steel—		
Speedicut	....	0 60
Annealed speedicut	....	0 65
Self-hardening	....	0 36
Best tool steel	....	0 12
Warranted	....	0 09
Best sheet steel	....	0 12
B. K. Morton & Co.—		
"Alpha" high speed	....	0 65
" annealed	....	0 70
"M," Self-hardening	....	0 50
"J" quality	....	0 18
"T" "	....	0 14
"B C" "	....	0 09
Jonas & Colver's tool steel	0 10	0 20
" "Novo"	....	0 65
" " annealed	....	0 70
Chas. Leonard	0 08	0 09
Crucible Steel Co.—		
" Rex high speed steel	0 65	0 75
" Self-hardening	0 45	0 50
Crucible Special	....	0 17
" S lver steel	....	0 13
" Black Diamond	0 10	011
Sanderson's Crucible steel	0 08	0 09
" Superior "	0 12	0 13

BABBIT METAL.

Syracuse Smelting Works:

Aluminum, genuine	0 45
Government, "	0 44
Tough, "	0 40
Hard, "	0 40
Dynamo	0 30
Special	0 25
Maganese	0 18
Car Box	0 17
Extra	0 13
No. 1	0 10
No. 2	0 07
No. 3	0 05½

Large orders subject to discounts.

The Canada Metal Co.:

Imperial, genuine	0 40
Metallic	0 30
Hercules	0 20
Star	0 15
No. 1	0 12
No. 2	0 10
No. 3	0 06
No. 4	0 05

BLACK SHEETS.

	Montreal.	Toronto
10 gauge	2 30	2 30
12 and 14 gauge	2 25	2 35
17 "	2 20	2 40
22 to 24 gauge	2 05	2 50
26 "	2 10	2 65
28 "	2 15	2 70

COPPER WIRE.

Discount, 50 per cent.

CANADA PLATES.

Ordinary	2 50
All bright	3 75
Galvanized Canada Plates—	

J. C. M. 3 Crowns

16 x 21 x 60	3 33
18 x 24 x 52	3 33
18 x 24 x 60	3 56

	Ordinary.	Dom. Crown.
18x24x52	4 25	4 35
" 60	4 50	4 60
20x28x80	8 50	8 70
" 94	9 00	9 20

GALVANIZED SHEETS.

	Fleur-de-Lis.	Gordon Crown.
16 to 20 gauge	3 40	....
22 to 24 gauge	3 50	3 50
26 "	3 75	3 75
28 "	4 00	4 15

	Comet Bell.	Queen's Head
16 to 20 gauge	3 40	....
22 to 24 gauge	3 45	3 65
26 "	3 70	3 90
28 "	3 95	4 15

American brands, $3.90 for 10¾ oz.
Less than case lots 10 to 15c. extra.

CHAIN.

Proof coil, 3-16 in., per 100 lb.		7 00	10 00
" ¼ "	"	....	5 60
" 5-16	"	....	4 45
" ⅜ "	"	....	3 85
" 7-16	"	....	3 70
" ½ "	"	....	3 55
" 9-16	"	....	3 45
" ⅝ "	"	....	3 35
" ¾ "	"	....	3 25

Halter, kennel and post chains, 40 to 40 and 5 per cent.

Cow ties	40 p.c.
Tie out chains	65 p.c.
Stall fixtures	35 p.c.
Trace chain	45 p.c.

Jack chain, iron, single and double, discount 35 p.c. [count 40 p.c.

Jack chain, brass, single and double, dis-

COPPER.

	Ingot.	Per 100 lb.
Casting, car lots	16 25	16 50

Bars.

Cut lengths, round, ⅛ to ¾ in.	21 00	23 00
" round and square,		
Cut 1 to 2 inches	21 00	23 00

Sheet.

Plain, 16 oz,, 14x48 and 14x60	....	21 00
Plain, 14 oz	....	22 00
inned copper sheet	....	24 00
lanished	....	32 00

Braziers' (in sheets).

4x6 ft., 25 to 30 lb. each, per lb.	0 22
" 35 to 45 " "	0 21
" 50-lb. and above "	0 20

BOILER AND T.K. PITTS.

Plain tinned, Spun } 41½ per cent. off list.

BRASS.

Rod and Sheet, 14 to 30 gauge, 10 per cent.	
Sheets, hard-rolled, 2x4	0 23
Tubing, base, per lb	0 23½

ZINC SPELTER.

Foreign, per 100 lb	7 00	....
Domestic " "	6 75	7 00

ZINC SHEET.

5-cwt. casks	....	7 00
Part casks	....	7 25

LEAD.

Imported Pig, per 100 lb	3 50	3 75
Bar, "	....	4 80
Sheets, 2½ lb. sq. ft., by roll	....	0 06½
Sheets, 3 to 6 lb. "	....	0 06

NOTE.—Cut sheets ½c. per lb., extra. Pipe, by the roll, usual weights per yard, lists at 7c. per lb. and 35 p.c lis. f.o.b. Toronto.

NOTE.—Cut lengths, net price, waste pipe 8-ft lengths, lists at 8c.

ANTIMONY.

Cookson's.....per lb. 0 09½

SHOT.

Common, $6.50 per 100 lb.; chilled, $7.00 per 100 lb.; buck, seal and ball, $7.50. Discount, 15 p.c. Prices are f.o.b. Toronto, Hamilton, Montreal, St. John and Halifax. Terms, 2 p.c. for cash in thirty days.

PLUMBING GOODS.

BATH TUBS.

Zinc	6 00
Copper, discount 20 per cent. off revised list.	

BATHS.

Standard Ideal Enameled.

Plate E I, Fittings extra	1st quality		Special
4 and 4½ ft. 3 in. rolled rim	$18 00	16 00	
5 feet "	19 00	17 00	
5½ " "	20 50	18 50	
6 " "	23 25	21 25	
Plate E II			
4½ feet 2½ in. "	16 75	14 75	
5 " 2½ " "	17 50	15 50	
5½ " 2½ " "	19 00	17 00	
Plate 123 E, lavatories	1st quality		8 90
" 123 E, "	2nd "		7 50
" 127 E, "	1st "		5 70
" 127 E, "	2nd "		4 80
" 128 E, "	1st "		5 60
" 128 E, "	2nd "		4 70
" 129 E, "	1st "		5 40
" 129 E, "	2nd "		4 50
Sinks 18 x 30 in flat rim, A quality			2 45
" " " " B "			00

IRON PIPE.

Black pipe—	Per 100 feet.
⅛ inch	2 75
¼ "	2 04
⅜ "	2 06
½ "	2 30
¾ "	2 88
1 "	4 12
1¼ "	5 62
1½ "	6 75
2 "	9 00

Galvanized pipe—	
⅛ inch	2 86
¼ "	2 89
⅜ "	3 14
½ "	4 02
1 "	5 77
1¼ "	7 88
1½ "	9 45
2 "	12 60

Malleable Fittings—Canadian discount 35 per cent. American discount 20 to 25 per cent.

Cast Iron Fittings— Standard bushings 50 and 10 and 10 per cent.; headers, 60; flanged unions and lipped, 60 and 5; malleable bushings, 65; nipples, up to 6 in., 75.

PLUMBERS' BRASS GOODS.

Standard Compression work, dis. 60 p.c.
Cushion work, discount 50 per cent.
Fuller work, discount 65 per cent.
6 dozen lots and over of the above, extra discount 10 per cent.
Lever handle Stops and Waste, discount 55 per cent. With in lots of 2 dozen and over, an extra discount of 10 per cent.
J.M.T. Globe, Angle and Check Valves, discount 55 per cent.
Standard Globe, Angle and Check Valves, discount 65 per cent.
Kerr's special standard globes and angles, discount 55 per cent.
Kerr's Jenkin disc, copper-alloy disc and heavy standard valves, discount 55 percent.
Kerr's standard brass checks, discount 55 p.c.
Kerr's standard brass disc steam radiator valves, discount 65 per cent.
Kerr's Jenkin disc, copper-alloy disc radiator valves, discount 65 per cent.
Kerr's quick-opening hot-water radiator valves, discount 65 per cent.
Weber's (Kerr) patent straightway gate valves, brass, discount 50 per cent.
Weber's (Kerr) patent straightway gate valves, I. B. B. M., discount 60 and 10 per cent.
J. M. T. Radiator Valves discount 55 per cent.
Standard Radiator Valves, discount 65 per cent.
Patent Quick-Opening Valves, discount 7 and 10 per cent.

No. 1 compression bath cock	net 1 75
No. 4 " "	" 1 90
No .7 Fuller's	" 2 20
No. 4½, "	" 2 35

Patent Compression Cushion, basin cock, hot and cold, per doz., $31; 5 and 10 per cent. discount.

Patent Compression Cushion, bath cock, No. 2208 2 25

Square head brass cocks, discount 55 per cent	
" " iron " " 60 "	
Thompson Smoke-test Machine	$25.00

RANGE BOILERS.

Copper, 30 gallon	" 22 00
" 35 "	" 24 00
" 40 "	" 28 00

Discount off copper boilers 15 per cent.

GALVANIZED IRON RANGE BOILERS.

Capacity. Gals.	Standard.	Extra heavy
12	4.50	6.50
18	4.75	6.75
24	4.75	6.75
30	5.00	7.50
35	6.00	8.50
40	7.00	9.50
52	11.00	14 00
66	18.00	20.00
82	21.00	24 00
100	29.00	34.00
120	34.00	40.00
144	47.00	55.00

American Steel & Wire Co.

New York Empire Building | **Montreal** N. Y. Life Building | **Chicago** The Rookery

BARBED WIRE CALVANIZED PLAIN WIRE PLAIN TWIST CABLE FENCING

Telegraph and Telephone Wire; Mattress, Broom, Weaving Wires of every description; Rail Bonds, Bale Ties, Special Wires for all purposes, Springs, Horse Shoes, Wire Rope, Cold-drawn Steel Shafting.

SOIL PIPE AND FITTINGS.

Med. and Extra heavy pipe and fittings, dis. 60 per cent.
7 and 8-in. pipe, discount 40 and 5 per cent.

SOLDER.

	Per lb
Bar, half-and-half, guaranteed	0 17½
Wiping	0 15½
Refined	0 16½

PAINTS AND OILS.

COLORS IN OIL.

1-lb. tins, pure.

Venetian red, per lb.	0 08
Chrome yellow	0 15
Golden ochre	0 08
French "	0 06
Marine black	0 04
Chrome green	0 10
French permanent green	0 13
Signwriters' black	0 15

WHITE LEAD.

	Per 100 lb.	
Pure	4 60	4 75
No. 1	4 35	4 50
No. 2		4 30
No. 3		3 37½
No. 4		3 35
Munro's Select Flake White		4 75
Elephant and Decorators' Pure		4 75
Tiger brand, pure		5 00
Decorators' Special for exterior use		4 25
Monarch		5 00
Decorator's Pure		4 75
Essex Genuine		4 25
Sterling Pure		5 00
Island City Pure		5 00
Ramsay's Pure Lead	4 75	5 00
Ramsay's Exterior	4 50	4 75

RED LEAD.

Genuine, 560 lb. casks, per cwt		$4 50
Genuine, 100 lb. kegs, "		4 75
No. 1, 560 lb. casks, per cwt	4 00	4 25
No. 1, 100 lb. kegs, per cwt		4 75

WHITE ZINC.

Extra Red Seal	0 06	0 08
French V. M.	0 06½	0 07
Lehigh	0 06	0 06½
Pure		0 07½
No. 1		0 06½
No. 2		0 05½

DRY WHITE LEAD.

Pure, casks	4 50
Pure, kegs	4 75
No. 1, casks	4 00
No. 1, kegs	4 25

PREPARED PAINTS.

In ¼, ½ and 1-gallon tins.

Pure, per gallon		1 20
Second qualities, per gallon		1 00
Barn (in bbls.)	0 60	0 90
The Sherwin-Williams paints		1 35
Canada Paint Co.'s pure		1 25
Toronto Lead & Color Co's pure		1 25
Sanderson Pearcy's pure		1 20
Standard Co.'s "New Era."		1 30
Francis-Frost Co.'s "Ark" B'd		1 25
" British Navy deck		1 50
Henderson & Potts's "Anchor"		1 35
Ramsay's paints, Pure, per gal.		1 20
" Thistle, "		1 00
" Outside, bbls	0 55	0 65
Island City House Paint		1 25
" Floor "		1 25
Sterling House Paint		1 20
" Floor "		1 10
National		1 05

PARIS GREEN.

Petroleum, barrels, per lb.	0 13½
Arsenic, kegs	0 13½
50 and 100-lb. drums	0 14
25-lb. drums	0 14½
1-lb. paper boxes	0 15
½-lb. paper boxes	0 17

Terms—2 per cent. off 30 days, or 90 days

PUTTY.

Bulk in bbls.	1 50
Bulk in less quantity	1 80
Bladders in bbls.	1 65 1 75
Bladders in kegs, boxes or loose	1 90
25-lb. tins	1 80
12½ lb. tins	2 05
Bladders in bulk or tins less than 100 lb.	1 85

VARNISHES.

	In 5-gal. lots. Per gal.	Net.
Carriage, No. 1	1 50	1 60
Pale durable body	4 10	4 25
" rubbing	2 85	3 20
Gold size, japan	1 50	1 60
No. 1 brown japan	0 85	0 90
Elastic oak		1 50
Furniture, extra	1 10	1 25
" No. 1	0 90	1 00
Hard oil finish	1 35	1 50
Light oil finish	1 60	1 70
Damar	1 75	2 00
Shellac, white	2 40	2 50
" orange	2 30	2 40
Turpentine, brown japan	1 10	1 20
" black japan	1 10	1 20
" " No. 1.	0 85	0 90
Elastilite varnish, 1 gal. can, each		2 00
Granitine floor finish, per gal		2 75
Maple Leaf coach enamels; size 1, size 2, 70c.; size 3, 40c. each.		$1.20
Sherwin-Williams' kopal varnish, assorted case, from to 1 gal., $2.50.		

GLUE.

Common	0 08	0 08½
French medal	0 10	0 14
White, extra	0 18	0 22
Gelatine		
Strip	0 18	0 20
Coopers	0 19	0 20
Huttner		
Ground	0 12	0 16
Cologne, genuine		

HARDWARE.

AMMUNITION.

Cartridges.

B. B. Caps Dominion, 50 and 5 and 25 per cent. American $2.00 per 1000.
C. B. Caps American, $2.60 per 1000.
Rim Fire Pistol, discount 30 p.c., American.
Rim Fire Cartridges, Dominion, 50 and 5 p.c.
Central Fire, Military and Sporting, American, add 20 per cent. to list. B.B. Caps, discount 40 per cent., American.
Central Fire Pistol and Rifle, list net Amer.
Central Fire Cartridges, pistol sizes, Dominion, 30 per cent.
Central Fire Cartridges, Sporting and Military, Dominion, 15 per cent. American 10 per cent. advance on list.
Loaded and empty Shells, "Trap" and "Dominion" grades, 25 per cent. discount. American 20 per cent. discount. Rival and Nitro, 10 per cent. advance on list.
Brass Shot Shells, 55 per cent.
Primers, Dom., 30 per cent.; American, $1.75

Wads.	per lb.
Best thick brown or grey felt wads, in ½-lb. bags	$0 70
Best thick white card wads, in boxes of 500 each, 12 and smaller gauges	0 29
Best thick white card wads, in boxes of 500 each, 10 gauge	0 35
Thin card wads, in boxes of 1,000 each, 12 and smaller gauges	0 20
Thin card wads, in boxes of 1,000 each, 10 gauge	0 25

Chemically prepared black edge grey cloth wads, in boxes of 250 each—	Per M.
11 and smaller gauge	0 60
9 and 10 gauges	0 70
7 and 8 "	0 90
5 and 6 "	1 10
Superior chemically prepared pink edge, best white cloth wads, in boxes of 250 each—	
11 and smaller gauge	1 15
9 and 10 gauges	1 40
7 and 8 "	1 65
5 and 6 "	1 90

ADZES.

Discount 22½ per cent.

ANVILS.

Wright's, 80-lb. and over	0 10¾
Hay Budden, 80-lb. and over	0 09¾
Brook's, 80-lb. and over	0 11¼

APPLE PARERS.

Woodyatt Hudson, per doz., net	4 50

AUGERS.

Gilmour's, discount 60 per cent. off list.

AXES.

Chopping Axes		
Single bit, per doz.	7 00	10 00
Double bit, "	10 00	18 00

Bench Axes, 40 per cent.
Broad Axes, 25 per cent.

Hunters' Axes	5 50	6 00
Boys' Axes	6 25	7 00
Splitting Axes	7 00	12 00
Handled Axes		10 00

AMERICAN AXE AND TOOL CO.

Red Ridge, boys', handled		5 75
" hunters		5 25

Underhill American Bench Axes, 40 p.c.

AXLE GREASE.

Ordinary, per gross	6 00	7 00
Best quality	10 00	12 00

BELLS.

Hand.

Brass, 60 per cent.
Nickel, 55 per cent.

Cow.

American make, discount 63⅔ per cent.
Canadian, discount 45 and 50 per cent.

Door.

Gongs, Sargant's 5 50 8 00
" Peterboro', discount 50 and 10 per cent. off new list.

Farm.

American, each	1 35	3 00

House.

American, per lb.	0 35	0 40

BELTING.

Extra, 60 per cent.
Standard, 60 and 10 per cent.
No. 1, not wider than 6 in., 60, 10 and 10 per cent.
Agricultural, not wider than 4 in., 75 per cent.

BITS.

Auger.

Gilmour's, discount 60 per cent.
Rockford, discount 50 and 10 per cent.
Jennings' Gen., net list.

Car.

Gilmour's, 47½ per cent.

Expansive.

Clark's, 40 per cent.

Gimlet.

Clark's, per doz	0 65	0 90
Diamond, Shell, per doz.	1 00	1 50
Nail and Spike, per gross	2 25	5 20

BLIND AND BED STAPLES.

All sizes, per lb.	0 07¾	0 12

BOLTS AND NUTS

	Per cent.
Carriage Bolts, common ($1 list	
" " ⅝ and smaller	60 and 10
" " 7-16 and up	55 and 5
" " full sq. ($2.40 list)	60
" " Norway Iron ($3 list)	60
Machine Bolts, all sizes, ⅝ and less	55
Machine Bolts, 7-16 and up	55 and 5
Plough Bolts	55 and 5
Blank Bolts	55 and 5
Bolt Ends	55 and 5
Sleigh Shoe Bolts	70
Coach Screws, cone point	70 and 5

Nuts, square, all sizes, 4c. per lb. off.
Nuts, hexagon, all sizes, 4½c. per lb. off.
Stove Rods per lb., 5½ to 6c.

BOOT CALKS.

Small and medium, ball	per M.	4 25
Small heel	"	4 50

BRIGHT WIRE GOODS

Discount 62½ per cent.

BUTCHERS' CLEAVERS.

German	per doz. 6 00	9 00
American	" 12 00	18 00

BUILDING PAPER, ETC

Tarred Felt, per 100 lb.	1 85
Ready roofing, 2-ply, not under 45 lb. per roll	0 90
Ready roofing, 3-ply, not under 65 lb., per roll	1 15
Carpet Felt per ton	45 00
Heavy Straw Sheathing per ton	35 00
Dry Sheathing per roll, 400 sq. ft.	0 40
Tar " " 400 "	0 50
Dry Fibre " 400 "	0 40
Tarred Fibre " 400 "	0 50
O. K. & I. X. L " 400 "	0 70
Resin-sized " 400 "	0 45
Oiled Sheathing " 600 "	1 00
Oiled " " 400 "	0 70
Root Coating, in barrels per gal.	0 17
Roof " small packages "	0 25
Refined Tar per barrel	5 00
Coal Tar "	4 00
Coal Tar, less than barrels per gal.	0 15
Roofing Pitch per 100 lb.	0 90
Slater's felt per roll	0 60

BULL RINGS.

Copper, $1.30 for 2½-inch, and $1.70

BUTTS.

Wrought Brass, net revised list.

Cast Iron.

Loose Pin, discount 60 per cent

Wrought Steel.

Fast Joint, discount 70 to 70 and 5 per cent.
Loose Pin, discount 70 to 70 and 5 per cent.

CARPET STRETCHERS.

American	per doz. 1 00	1 50
Bullard's	"	6 50

CASTORS.

Bed, new list, discount 55 to 57½ per cent.
Plate, discount 52½ to 57½ per cent.

CATTLE LEADERS.

Nos. 32 and 33	per gross	7 50 8 50

CHALK.

Carpenters' Colored, per gross	0 45	0 75
White lump	per cwt. 0 60	0 65
Red	0 05	0 06
Crayon	per gross 0 14	0 18

CHISELS.

Socket, Framing and Firmer.

Broad's, discount 70 per cent.
Warnock's, discount 70 per cent.
P. S. & W. Extra, discount 60 and 10 per cent.

CLOTHES REELS.

Davis Clothes Reels, dis. 40 per cent

PLANE IRONS.

English	per doz.	2 00 5 00

PLIERS AND NIPPERS.

Button's genuine, per doz. pairs, discount 37½ to 40 per cent.

Button's imitation	per doz.	5 00 9 00
man	"	0 60 0 60

PRESSED SPIKES.

Discount 20 per cent.

PULLEYS.

Hothouse	per doz.	0 55 1 00
Axle	"	0 22 0 33
Screw	"	0 22 1 00
Awning	"	0 35 2 50

PUMPS.

Canadian cistern		1 80 3 60
Canadian pitcher spout		1 40 2 10

Paterson's Wire Edged Ready Roofing

Fire-proof and Sanitary :
Easy to put on :
Hard to wear out :
Don't cost much.

You have hundreds of Customers who require that kind of Roofing Material.

The Paterson Mfg. Co., Limited

Toronto and Montreal.

CONDUCTOR PIPE.

Plain or Corrugated.

2-inch	per 100 feet	3 00
3 "	" "	4 00
4 "	" "	5 25
5 "	" "	6 75
6 "	" "	9 00

CRADLES, GRAIN.

Canadian, discount 20 to 25 per cent.

CROSSCUT SAW HANDLES.

S. & D., No. 3	per pair	0 15
S. & D., " 5	"	0 22½
S. & D., " 6	"	0 15
Boynton pattern	"	0 20

DOOR SPRINGS.

Torrey's Rod	per doz.	1 75
Coil, 9 to 11 in	"	0 95 1 65
English	"	2 00 4 00

DRAW KNIVES.

Coach and Wagon, discount 70 per cent. new list.
Carpenters' discount 70 per cent.

DRILLS.

Hand and Breast.

Millar's Falls, per doz., net list.

DRILL BITS.

Morse, discount 37½ to 40 per cent.
Standard, discount 50 and 5 to 55 per cent.

FAUCETS.

Common, cork-lined, discount 35 per cent.

EAVETROUGHS.

10-inch	per 100 ft.	10 00

ELBOWS (stovepipe.)

5 and 6-inch, common	per doz.	1 20
7-inch	"	1 35

Polished, 15c. per dozen extra.

ESCUTCHEONS.

Discount 50 and 10 per cent., new list

ESCUTCHEON PINS.

Iron, discount 40 per cent.

FACTORY MILK CANS.

Discount off revised list, 40 per cent.

FILES AND RASPS.

Great Western	70 and 10 per cent.
Arcade	70 " 10 "
Kearney & Foot	70 " 10 "
Disston's	70 " 10 "
American	70 " 10 "
J. Barton Smith	70 " 10 "
McClellan	70 " 10 "
Eagle	70 " 10 "
Nicholson, 60 and 10 to 60, 10 and 5	
Royal	80 "
Globe	70 to 75 "

Black Diamond, 60 and 10 to 60, 10 and 5 per cent.
Jowitt's, English list, 25 to 27½ per cent.
Nicholson File Co.'s "Simplicity" file handle, per gross 85c. to $1.50

GLASS.

Window. Box Price.

Size United Inches.	Star Per 50 ft.	Star Per 100 ft.	D. Diamond Per 50 ft.	D. Diamond Per 100 ft.
Under 26	....	3 80	....	5 06
26 to 40	....	4 00	....	5 44
41 to 50	....	4 50	....	6 56
51 to 60	....	4 75	....	7 50
61 to 70	....	5 00	....	8 62
71 to 80	....	5 30	....	9 38
81 to 85	....	....	....	10 75
86 to 90	....	....	....	12 30
91 to 95	....	....	....	15 00
96 to 100	....	....	....	18 00
96 to 100	....	....	....	18 00

GAUGES.

Marking, Mortise, Etc.

Stanley's discount 50 to 55 per cent.

Wire Gauges.

Winn's, Nos. 26 to 33	each	1 65 2 40

GILLETT'S POWDERED LYE.

1-case, $3.70 ; 3-case, $3.60 ; 5-case and over, $3.50.

HALTERS.

Rope, ⅜-inch	per gross	9 00
Rope, ½ "	"	12 00
Rope, ⅝ to ¾-inch	"	14 00
Leather, 1-inch	per doz.	4 00
Leather, 1¼ "	"	5 20
Web	"	2 45

HAMMERS.

Nail.

Maydole's, discount 5 to 10 per cent. Canadian discount 25 to 27½ per cent.

Tack.

Magnetic	per doz.	1 10 1 20

Sledge.

Canadian	per lb.	0 07 0 08½

Ball Pean.

English and Canadian, per lb.		2½ 9 25

HANDLES.

Axe, 2nd growth, per doz. net		3 00 4 00
Store door	per doz.	1 00 1 50

Fork.

C. & B., discount 40 per cent., revised list.

Hoe.

C. & B., discount 40 per cent., revised list.

Saw.

American	per doz.	1 00 1 25

Plane.

American	per gross	3 15 3 75

Hammer and Hatchet.

Canadian, discount 40 per cent.

HANGERS.

	doz.	pairs.
Steel barn door	8 00	10 00
Stearns, 4-inch	....	4 50
" 5-inch	....	6 00
Zenith	....	9 00
Lane's covered—		
No. 11, 5-foot run	....	8 40
No. 11½, 10-foot run	....	10 80
No. 12, 10-foot run	....	12 60
No. 14, 15-foot run	....	21 00
Steel, covered	4 00	11 00
" track, 1 x 3-16 in(100 ft)	....	3 75
" " 1½ x 3-16 in(100 ft)	....	4 75

HARVEST TOOLS.

Discount 60 per cent.
S. & D. lawn rakes, Dunn's, 40 off.
" sidewalk and stable scrapers, 40 off.
" Maple Leaf and Premiums saw sets, 40 off.
" saw swages, 40 off.

HATCHETS.

Canadian, discount 40 to 42½ per cent.

Shingle, Red Ridge 1, per doz.		4 40
" " 2, "		4 85
Barrel, Underhill		5 00

HAT ENAMEL.

Henderson & Potts' "Anchor Brand"

HINGES.

Blind, Parker's, discount 60 per cent.

Heavy T and strap, 4-in., per lb.		0 06½
" 5-in., "		0 06½
" " 6-in., "		0 06
" " 8-in., "		0 05½
" " 10-in., "		0 05½

Light T and strap, discount 65 and 5 per cent
Screw hook and hinge—

6 to 10 in	per 100 lb.	4 50
12 in. up	"	3 25

Spring, No. 20, per gro. pairs 10 80
Spring, Woodyatt pattern, per gro., No. 5, $17.50; No. 10, $18 ; No. 20, $10.80 ; No. 120, $20 ; No. 51, $10 ; No. 50, $27.50.

HOES.

Garden, Mortar, etc., discount 60 per cent.

Planter	per doz.	4 00 4 50

HOLLOW WARE

Tinned cast, 35 per cent.

HOOKS.

Cast Iron.

Bird cage	per doz.	0 50 1 10
Clothes line, No. 61	"	0 00 0 70
Harness	"	0 60 12 00
Hat and coat	per gro.	1 10 10 00
Chandelier	per doz.	0 50 1 00

Wrought Iron.

Wrought hooks and staples Canadian discount 60 per cent.

Wire.

Hat and coat, discount 60 per cent.

Belt	per 1,000	0 60

Screw, bright, discount 62½ per cent.

HORSE NAILS.

"P.B." Brand, 55 to 60 per cent.
'C' brand, 40, 10 and 7½ per cent. off list { Oval head
M.R.M. Co. brand, 55 per cent.
"Monarch," 50 and 7½ per cent.
"Peerless" 50 per cent. dis.

HORSESHOES.

F.O.B. Montreal

"P.B." brand, new pattern, base	$3 50
M.R.M. Co. brand, base	3 65

Add 15c. Toronto, Hamilton, Guelph.

JAPANNED WARE.

50 per cent.

PICKS.

Star	per doz.	3 00 3 25

KETTLES.

Brass spun 7½ per cent. discount off new list.

Copper	per lb.	0 30 0 50

American, 60 and 10 to 65 and 5 per cent.

KEYS.

Lock, Canadian dis. 40 to 40 and 10 per cent.
Cabinet trunk and padlock
American per gross 0 60

KNOBS.

Door, japanned and N.P., per doz.		1 50 2 50
Bronze, Berlin	per doz.	2 75 3 25
Bronze, Genuine	"	6 00 9 00
Shutter, porcelain, F. & L. screw	per gross	1 30 2 00
White door knobs	per doz.	.... 2 00

HAY KNIVES.

Net prices.

LAMP WICKS.

Discount, 60 per cent.

LADDERS, EXTENSION.

Waggoner Extension Ladders, dis. 40 per cent.

LANTERNS.

Cold Blast	per doz.	4 50
No. 3, "Wright's"	"	8 50
Ordinary, with O burner	"	4 00
Dashboard, cold blast	"	9 00
No. 0	"	5 75

Japanning, 50c. per doz. extra.

LEMON SQUEEZERS.

Porcelain lined	per doz.	2 20 5 60
Galvanized	"	1 87 3 85
King, wood	"	2 75 2 90
King, glass	"	4 00 4 50
All glass	"	0 50 0 90

LAWN MOWERS FOR 1905.

Woodyatt, 10½-in., 14-in. cut		$ 8 50 to $11 00
Star, 9 -in.	"	6 00 to 6 50
Daisy, 8 -in.	"	5 25 to 5 75
Philadelphia, 7½-in.	"	6 00 to 7 50
Woodyatt, 10½-in., ball bearing		13 25 to 18 00
Grass Boxes		1 75 to 2 00
King Edw'd 12-in., 14-in. cut		9 00 to 10 00

Horse Lawn Mowers, "Special."

Discount, 50 per cent., with freight concessions in quantity shipments.

Maxwell & Sons

10½-in. high wheel	0	10 00
9-in.	5 50	6 25
8-in.	4 90	5 50

Discount 50 per cent.

LOCKS.

Canadian, 50 to 50 and 10 per cent.

Russell & Erwin, steel rim	per doz.	2 25

Cabinet.

Eagle, discount 30 per cent.

Padlocks.

English and Am.	per doz.	0 50 6 00

Eagle, discount 20 to 25 per cent.

MACHINE SCREWS.

Iron and Brass.

Flat head, discount 25 per cent.
Round head, discount 20 per cent.

MALLETS.

Tinsmiths'	per doz.	1 25 1 50
Carpenters', hickory,	"	1 25 3 75
Lignum Vitae	"	3 85 5 00
Caulking, each		0 60 2 00

MATTOCKS.

Canadian	per doz.	5 50 6 00

MEAT CUTTERS.

American, discoun 3½ per cent.
German, 15 per cen
Gem each 1 15

MILK CAN TRIMMINGS.

Discount 25 per cent.

NAILS.

	Cut.	Wire
2d	3 40	3 25
3d	3 05	2 90
4 and 5d	2 80	2 65
6 and 7d	2 70	2 55
8 and 9d	2 55	2 40
10 and 12d	2 50	2 35
16 and 20d	2 45	2 30
30, 40, 50 and 60d (base)	2 40	2 25

F.o.b. Toronto.
Steel cut nails 10c. extra.
Miscellaneous wire nails, discount 75 per cent.
Coopers' nails, discount 30 per cent.

NAIL PULLERS.

German and American	85	2 50
No. 1	85	
No 1573	75	

NAIL SETS.

Square, round and octagon, per gross	3 38	
Diamond	1 00	

POULTRY NETTING.

2-in. Mesh, 19 w.g., dis. 50 per cent.
2-in. Mesh 16 w.g. 60 per cent.
Smaller than 2 in. dis. 55 per cent.

OAKUM.

U. S. Navy	per 100 lb.	6 75
Plumbers	"	3 00

OILERS.

McClary's Model galvanized oil can, with pump, 5 gallon, per dozen 10 00
Davidson oilers, discount 40 per cent.
Zinc and tin, discount 50, 50 and 10 per cent.

Copper	per doz.	1 25 3 50
Brass	"	1 50 3 50

Malleable, discount 25 per cent

GALVANIZED PAILS.

Dufferin pattern pails, discount 47½ per cent
Flaring pattern, discount 47½ per cert.
Galvanized washtubs, discount 47½ per cent.

PIECED WARE.

Discount 40 per cent off list, June, 1899.
10-qt. flaring sap buckets, discount 40 per cent
6, 10 and 14-qt. flaring pails dis. 40 per cent.
Creamer cans, discount 40 per cent.

PICKS.

Per dozen		6 00 9 00

PICTURE NAILS.

Porcelain head	per gross	1 35 1 50
Brass head	"	0 40 1 00

PICTURE WIRE.

Tin and gilt, discount 75 per cent.

PINE TAR.

½ pint in tins	per gross	7 80
1 " "	"	9 60

PLANES.

Wood bench, Canadian discount 40 per cent.
American discount 50 per cent.
Wood, fancy Canadian or American 37½ to 40 per cent



Card Index Outfit

A BARGAIN IN CARD SYSTEM

A Brain Box for 90c.

HERE'S the Offer:

1 Cloth Box - - - - -
150 5 x 3 Linen Cards - - - -
1 set Daily Guides, 1-31 - -
1 set Monthly Guides, Jan.-Dec.
or 1 set Alphabetical Guides, A. to Z.

All for 90 CENTS Prepaid

Just to demonstrate what a wonderful **Time, Trouble and Thought** Saver our Card System is, we make you this offer. Money refunded if it doesn't satisfy you.
There is nothing in business furniture we do not make.
School Desks and Metal Work a specialty. **Call, Phone or Write for Catalogue.**

THE OFFICE SPECIALTY MFG. CO., Limited

Factories, NEWMARKET. **97-105 Wellington St. West, (near York), TORONTO**

PUNCHES.

Saddler's ..... per doz.	1 00	1 85
Conductor's..... "	3 00	15 00
Tinners', solid.....per set	....	0 72
" hollow.....per inch	....	1 00

RAKES.

Wood..... per doz. net 1 20 up.

RAZORS. per doz.

Elliot's	4 00	18 00
Geo. Butler's & Co.'s.....	4 00	18 00
Boker's	7 50	11
" King Cutter	13 50	18 50
Wade & Butcher's.....	3 60	10 00
Carbo Magnetic.....	....	15 00
Griffon Barber's Favorite	....	10 75
Griffon No. 65.....	....	13 00
Griffon Safety Razors.....	....	13 50
Griffon Stropping Machines..	....	13 50
Lewis Bros.' "Klean Kutter"	8 50	10 50
Hindoo	10 50	14 00
Orgsteom's Swedish.....	3 50	10 00
Henckel's	7 50	20 00

Clauss, 50 and 10 per cent.
Clauss Strops, 50 and 10 per cent.

REGISTERS.

Discount 40 per cent.

RIVETS AND BURRS.

New List.

Iron Rivets, black and tinned, 60 and 10 and 10 per cent.
Iron Burrs, discount 60 and 10 and 10 p.c.
Copper Rivets, with usual proportion burrs, 45 per cent.
Copper Burrs only, discount 30 and 10 per cent.
Extras on Tinned or Coppered Rivets, ½-lb. packages 1c. per lb.; ¼-lb. packages 2c. lb.

RIVET SETS.

Canadian, discount 35 to 37½ per cent.

ROPE, ETC.

Sisal.....	0 11
Pure Manilla	0 14½
"British" Manilla.....	0 11
Cotton, 3-16 inch and larger 0 21	0 23
" 5-32 inch 0 25	0 27
" ⅛ inch 0 25	0 28
Russia Deep Sea	0 16
Jute.....	0 09
Lath Yarn, single	0 10
" double	0 10½
Sisal bed cord, 48 feet.....per doz.	0 65
" " 60 feet ..... "	0 80
" " 72 feet..... "	0 95

RULES.

Boxwood, discount 70 per cent.
Ivory, discount 20 to 25 per cent.

SAD IRONS.

Mrs. Potts, No. 55, polished....per set	0 75
" No. 50, nickle-plated, "	0 80
Common, plain.....	4 50
" plated	5 50

SAND AND EMERY PAPER.

B. & A. sand, discount, 40 and 5 per cent
Emery, discount 40 per cent.
Garnet (Rurton's). 5 to 10 per cent. advance on list.

SAP SPOUTS.

Bronzed iron with hooks ....per 1,000 7 50
"Eureka" tinned steel, hooks " 8 00

SAWS.

Hand, Disston's, discount 12½ per cent
S. & D., discount 40 per cent.
Crosscut, Disston's....per foot 035 0 55
S. & D., discount 35 per cent. on Nos. 2 and 3.
Hack, complete.....each 0 75 2 75
" frame only.....each 0 50 1 25
S. & D. solid tooth circular shingle, concave and band, discount 50 per cent.
" " mill and ice, drag, discount 30 per cent
" " cross-cut, discount 35 per cent.
" " hand saws, butcher, disc't 40 per cent
" " compass, pruning and back, discount 45 per cent.
" " buck, New Century.....$6 25
" " " No. 1 Maple Leaf..... 5 25
" " " Happy Medium..... 4 25
" " " Watch Spring..... 4 25
" " " common frame..... 4 00

SASH WEIGHTS.

Sectional.....per 100 lb.	2 00	2 25
Solid ..... "	1 50	1 75

SASH CORD.

Per lb..... 0 28 0 30

SAW SETS. per doz.

Lincoln and Whiting	4 75
Hand Sets, Perfect	4 00
X-Cut Sets, "	7 50

SCALES.

Gurney Standard, 40 per cent.
Gurney Champion, 50 per cent.
Burrow, Stewart & Milne—
Imperial Standard, discount 40 per cent.
Weigh Beams, discount 35 per cent.
Champion Scales, discount 50 per cent.
Fairbanks standard, discount 35 per cent.
" Dominion, discount 55 per cent.
" Richelieu, discount 55 per cent.
Warren's new Standard, discount 40 per cent.
" " Champion, discount 50 per cent.
" Weighbeams, discount 35 per cent.

SCREW DRIVERS.

Sargent's .....per doz. 0 65 1 00

SCREEN DOORS.

Common doors, 2 or 3 panel, walnut stained, 4-in. style.....per doz. 6 50
Common doors, 2 or 3 panel, yellow and green stained, 4-in. style....per doz. 6 75
Common doors, 2 or 3 panel, in natural colors, oil finish .....per doz. 8 75
3-in. style 20c. per dozen less.

SCREWS.

Wood, F. H., bright and steel, discount 87½ per cent.
Wood, R. H., bright, dis. 82½ per cent.
" F. H., brass, dis. 80 per cent.
" R. H., " dis. 75 per cent.
" F. H., bronze, dis. 75 per cent.
" R. H., " dis. 70 per cent.
Drive Screws, dis. 87½ per cent.

Bench, wood .....per doz.	3 25	4 00
" iron ..... "	4 25	5 00

Set, case hardened, dis. 60 per cent.
Square Cap, dis. 50 and 5 per cent.
Hexagon Cap, dis. 45 per cent.

SCYTHES.

Per doz. net..... 6 00 9 00

SCYTHE SNATHS.

Canadian, discount 40 per cent.

SHEARS.

Clauss, nickel, discount 80 per cent.
Clauss, Japan, discount 67½ per cent.
Clauss, tailors, discount 40 per cent.
Seymour's, discount 50 and 10 per cent.

SHOVELS AND SPADES.

Canadian, discount 45 per cent.

SINKS.

Cast iron, 16 x 24.....	0 85
" 18 x 30.....	1 00
" 18 x 36.....	1 40

SNAPS.

Harness, German, discount 25 per cent.
Lock, Andrews' 4 50 11 50

SOLDERING IRONS.

1, 1½-lb..... per lb.	....	0 37
2-lb. or over ..... "	....	0 34

SQUARES.

Iron, No. 432 .....per doz.	1 90	2 25
" No. 493 ..... "	2 40	2 55
" No. 494 ..... "	3 25	3 40

Steel, discount 60 and 5 to 65 per cent.
Try and Bevel, discount 50 to 52½ per cent.

STAMPED WARE.

Plain, discount 75 and 12½ per cent. off revised list.
Retinned, discount 75 per cent. off revised list

STAPLES.

Galvanized	....	3 00
Plain	....	2 80

Coopers', discount 45 per cent.
Poultry netting staples, discount 40 per cent.

STOCKS AND DIES.

American discount 25 per cent.

STONE.

Washita .....per lb.	0 28	0 60
Hindostan ..... "	0 06	0 07
" slip ..... "	0 09	0 09
Labrador..... ..... "	....	0 13
" Axe..... "	....	0 15
Turkey ..... "	....	0 50
Arkansas..... "	....	1 50
Water-of-Ayr ..... "	....	0 10
Scythe .....per gross	3 50	5 00
Grind, 40 to 200 lb., per ton....	....	25 00
" under 40 lb., "	....	28 00
" 200 lb. and over	....	31 00

STOVEPIPES.

5 and 6 inch, per 100 lengths	7 00
7 inch..... " " "	7 50

TACKS, BRADS, ETC.

Carpet tacks, blued	80 and 15
" " tinned.....	80 and 20
" " (in kegs).....	40
Cut tacks, blued, in dozens only	80
" ¼ weights	60
Swedes cut tacks, blued and tinned—	
In bulk.....	80 and 10
In dozens	75
Swedes, upholsterers', bulk....85, 12½ and 12½	
" brush, blued and tinned bulk	70
Swedes, rimp, blued, tinned and japanned.....	75 and 12½
Zinc tacks	35
Leather carpet tacks.....	55
Copper tacks.....	50
Copper nails	52½
Trunk nails, black	65 and 5
Trunk nails, tinned.....	65 and 10
Clout nails, blued	65 and 5
Chair nails.....	35
Patent brads.....	40
Fine finishing.....	40
Lining tacks, in papers.....	10
" " in bulk.....	15
" " solid heads, in bulk	75
Saddle nails, in papers.....	10
" " in bulk.....	15
Tufting buttons, 22 line, in dozens only	60
Zinc glaziers' points	5
Double pointed tacks, papers..	90 and 10
" " " bulk....	40
Clinch and duck rivets.....	45

TAPE LINES.

English, ass skin.....per doz.	2 75	5 00
English, Patent Leather	5 50	9 75
Chesterman's.....each	0 90	2 85
" steel.....each	0 80	8 00

TINNERS' SNIPS.

Per doz..... 3 00 15 00
Clauss, discount 35 per cent.

THERMOMETERS.

Tin case and dairy, 75 to 75 and 10 per cent.

TRAPS (steel.)

Game, Newhouse, discount 25 per cent.
Game, H. & N., P. S. & W., 45 and 5 per cent.
Game, steel, 60 and 5 per cent.

TROWELS.

Disston's, discount 10 per cent.

German.....per doz.	4 75	6 00

S. & D., discount 35 per cent.

TWINES.

Bag, Russian .....per lb.	....	0 27
Wrapping, cotton, 3-ply	....	0 24
" 4-ply	....	0 27
Mattress .....per lb.	0 33	0 45
Staging..... "	0 27	0 35

VISES.

Wright's.....	....	0 13½
Brook's.....	....	0 12½
Pipe Vise, Hinge, No. 1.....	....	3 50
" " " No. 2.....	....	5 50
Saw Vise.....	4 50	9 00

Columbia Hardware Co.
Blacksmiths' (discount) 60 per cent.
" parallel (discount) 45 per cent

ENAMELLED WARE.

White, Princess, Turquoise, Blue and White discount 50 per cent.....
Diamond, Famous, Premier, discount 50 and 10 per cent.....
Granite or Pearl, Imperial, Crescent, discount 50, 10 and 10 per cent.
Premier steel ware, 40 per cent.
"Star" decorated steel and decorated whit 25 per cent.

WIRE.

Smooth Steel Wire.

No. 0-9 gauge.....	$2 15
10 "	6c. extra.
11 "	12c. "
12 "	20c. "
13 "	30c. "
14 "	40c "
15 "	55c. "
16 "	70c. "

Add 60c. for coppering and $2 for tinning.
Extra net per 100 lb.—Oiled wire 10c. spring wire $1.25, special hay baling wire 30c. best steel wire 75c., bright soft drawn 15c., charcoal (extra quality) $1.25, packed in casks or cases 15c., bagging and papering 10c., 50 and 100-lb. bundles 10c., in 25-lb. bundles 15c., in 5 and 10-lb. bundles 25c., in 1-lb. hanks, 50c., in ½-lb. hanks 75c., in ¼-lb. hanks $1.
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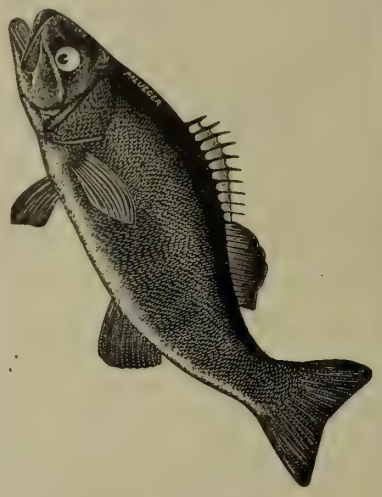
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INDEX TO ADVERTISERS.

A

Acme Can Works 4
Acme Lathe & Products Co 51
American Shearer Mfg. Co 21
American Steel and Wire Co 59
Anglo-Canadian Supply Co 50
Atkins, E. C., & Co 55
Armstrong Bros 47
Atlas Mfg. Co 56

B

Barnett, G. & H., Co ....outside back cover
Bartlett, Wm., & Son 54
Bayliss, Jones & Bayliss 1
Birkett, Thos., & Son Co. 1
Bolton, Fane & Co 30
Boss Machine Co 8
Bosson Bros 56
Bradstreet's 64
Brantford Cordage Co ... inside back cover

C

Canada Brass Rolling Mills 29
Canada Foundry Co. 49
Canada Iron Furnace Co 37
Canada Metal Co 25
Canada Paint Co 48
Canada Paper Co 21
Canadian Fairbanks Co 27
Canadian Heating & Ventilating Co ... 27
Canadian Rubber Co 12
Canadian Sewer Pipe Co 56
Canadian Steel and Wire Co 4
Clauss Shear Co 47
Concrete Block Machine Co 56
Connor, J. H., & Sons 64
Consumers' Cordage Co 11
Contract Record 56
Covert Mfg. Co 42
Cutts, C. M. & Co 51

D

Davidson, Thos., Mfg. Co 2
Dennis Wire and Iron Co 51
Deseronto Iron Co 37
Dods, P. D., & Co 47
Dominion Belting Co 10
Dorken Bros. ....outside front cover, 6, 49
Dowswell Mfg. Co 49

E

Enterprise Mfg. Co., of Akron, Ohio ... 62
Erie Specialty Co 64

F

Falkiner, H. F 50
Ferrosteel Co 28
Frothingham & Workman 9

G

Gibb, Alexander 20
Gies, Philip 21
Gilbertson, W., & Co 41
Glauber Brass Co 21
Greening, B., Wire Co 7
Grose, Walter 41
Grey & Bruce Portland Cement Co 54
Grove Chemical Co 47
Gurney Foundry Co 29, 51
Gurney, Tilden Co 53
Gutta Percha and Rubber Mfg. Co ....
outside back cover

H

Ham & Nott 6
Hamilton Cotton Co 6
Hamilton Rifle Co 30
Hankin, F 49
Hanover Portland Cement Co 54
Harrington & Richardson Arms Co 49
Hart & Cooley Co 28
Heinisch, R., Sons Co 10
Henderson, J. A 41
Henderson & Potts Co 46
Herm, Weissenburger & Co 42
Hobbs Mfg. Co 55
Howland, H. S., Sons & Co 17
Hyde, F. & Co 37

I

Imperial Varnish and Color Co 44
Ironside, Son & Co 64

J

Jackson, C. F., & Co 37
Jamieson, R. C., & Co 45
Jardine, A. B., & Co. 21
Jenking, A. C. 54
Jenkins Bros. 25
Johnson's, Iver, Arms and Cycle Works 16
Johnston, Rd., Clapham & Morris. 6

K

Kemp Mfg. Co 12
Kerr Engine Co 20

L

Leslie, A. C., & Co 37
Lewis Bros. & Co. 3
Lewis, Rice, & So ..... inside front cover
Lockerby & McComb 53
London Rolling Mill Co. .inside back cover
Loughead, J. S., & Son 6
Lucas, John & Co 45
Lufkin Rule Co .....inside back cover
Luxfer Prism Co 55
Lysaght, John. .....outside front cover

M

Mackenzie Bros 41
Maple Leaf Harvest Tool Co 5
Mast, J. M., Mfg. Co 10
Maxwell, D., & Sons 6
Mechanics' Supply Co 27
Metallic Roofing Co 39
Morton, B. K., & Co 37
Morrison, James, Brass Mfg. Co 19
Morrow, John, Machine Screw Co 41
Munderloh & Co 26

Mc

McArthur, Alex., & Co 58
McCaskill, Dougall & Co 47
McClary Mfg. Co 30
McDougall, R., Co 37
McGregor-Banwell Fence Co 50

N

Naturo Co 23
Newman, W., & Sons 54
North Bros. Mfg. Co 1
North West Machinery & Iron Co 20
Nova Scotia Steel and Coal Co 37

O

Oakey, John, & Sons 50
Office Specialty Mfg. Co 61
Oneida Community 9
Ontario Tack Co 14
Ontario Wind Engine and Pump Co .. 51
O-So-Ezy Mfg. Co 54
Owen Sound Wire Fence Co 7

P

Page-Hersey Iron and Tube Co 21
Paterson Mfg. Co 60
Pedlar People 53, 57
Penberthy Injector Co 23
Phillips, Chas. D 54

R

Ramsay, A., & Son Co 10, 23
Ross, J. A 10
Round, John, & Son 8
Royal Paper Mills Co ....inside back cover
Russell & Erwin Mfg. Co 9

S

Sadler & Haworth .....outside back cover
Samuel, M. & L., Benjamin, & Co 2
Sanderson-Harold Co 29
Scott, Greenwood & Co 47
Sell's Commercial 47
Seymour, Henry T., Shear Co 10
Sharratt & Newth 10
Shaw, A., & Son 10
Sherwin-Williams Co 15
Silica Barytic Stone Co 56
Skedden Brush Co 45
Smith & Hemenway Co 21
Solarine Metal Polish 50
Standard Ideal Sanitary Co 19
Standard Paint and Varnish Works ... 47
Steel Trough and Machine Co 51

T

Tarbox Bros 64
Taylor-Forbes Co. outside front cover, 52
Thompson, B. & S. H., Co .....
outside back cover
Thorne, R. E 20
Turnbull & Henderson 20

U

United States Register Co 26
Utica Drop Forge and Tool Co 21

V

Voss Bros. Mfg. Co 7

W

Wallace Barnes Co 21
Walter, E. F., & Co 4
Welsh Tinplate & Metal Stamping Co. . 4
Western Wire Nail Co 16
Wilcox Mfg. Co 54
Wilkinson Sword Co 62
Winnipeg Paint and Glass Co 41
Wright, E. T., & Co 51

CLASSIFIED LIST OF ADVERTISEMENTS.

Aluminum Castings.
Canadian Aluminum Works Montreal.

Anvils
Taylor-Forbes Co., Guelph, Ont.

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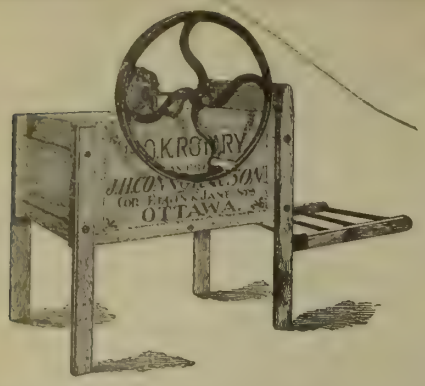
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McArthur, Alex., & Co., Montreal.
Royal Paper Mills Co., East Angus, Que.

CONNOR'S O. K. ROTARY WASHER.



No experiment, but a trade winner. Dealers who handle this washer say they sell easier than any other. Write for our catalogue and price list.

J. H. CONNOR & SON, LTD., Manufacturers OTTAWA

IRONSIDE FOR IRON

OUR SPECIALTIES ARE BRITISH AND FOREIGN **IRON, STEEL, METALS, BARS, PLATES, SHEETS, BOLTS and NUTS, TIN PLATES, Etc.**

Sole Licensees for **PAGE'S PATENT WIRE STRETCHER,** and we are willing to sell the right of manufacture in Canada on a Royalty basis.

IRONSIDE'S PATENT WIRE CUTTERS, guaranteed to cut any wire

We publish a "Canadian Metal Price List" monthly. Quotations in Dollars and Cents. (C.I.F.) We will send this, and our "Weekly Market Report" on receipt of address.

IRONSIDE, SON & CO., 16 Water Lane Gt. Tower St., E. C **LONDON, ENG**

To the Wholesale Trade.

We are now fully equipped and prepared to give quotations for the manufacture of any

Woodenware Specialties

OUR HARDWARE SHELF BOX is selling itself. Write for prices.

...THE...

Bennett Manufacturing Co.

PICKERING, ONT.



The Story of a Cloth

The story of the **TARBOX CLOTH** is a story of good points. The cloth is specially woven, easily wrung, light in weight, absorbs water like a sponge and is a strong feature with

The Tarbox Self-Wringing Mop

but does just as well with the ordinary hand-wringing mop.

Your Jobber Sells Them.

TARBOX BROS., Toronto

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In this paper cost 2 cents per word first insertion, 1 cent per word subsequent insertions. Contractions count as one word, but five figures (such as $1,000) may pass as one word. Cash remittance to cover cost **must in all cases** accompany orders, otherwise we cannot insert the advertisement. When replies come in our care 5 cents additional must be included for forwarding same. Many large business deals have been brought about through advertisements of 20 or 30 words. Clerks can be secured, articles sold and exchanged, at small expenditure.

MacLEAN PUBLISHING CO., Limited
Montreal and Toronto.

...ESTABLISHED 1849...

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Capital and Surplus, $1,500,000. **Offices Throughout the Civilized World.**

Executive Offices: Nos. 346 and 348 Broadway, New York City, U.S.A.

THE BRADSTREET COMPANY gathers information that reflects the financial condition and the controlling circumstances of every seeker o mercantile credit. Its business may be defined as of the merchants, by the merchants, for the merchants. In procuring, verifying and promulgating information no effort is spared, and no reasonable expense considered too great, that the results may justify its claim as an authority on all matters affecting commercial affairs and mercantile credit. Its offices and connections have been steadily extended, and it furnishes information concerning mercantile persons throughout the civilized world.

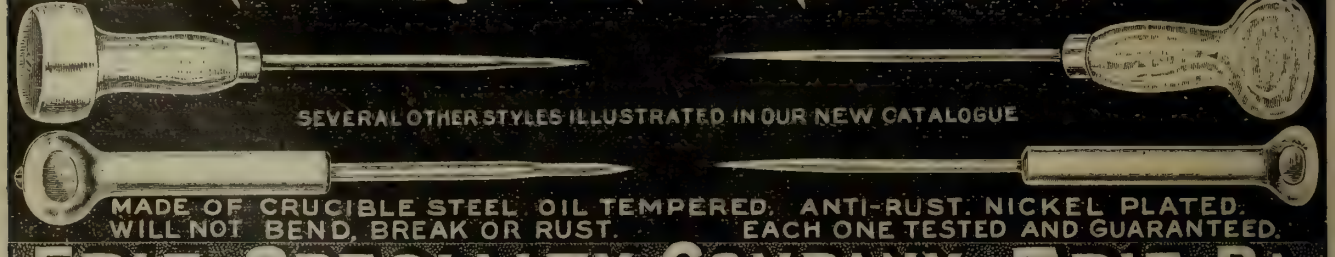
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VANCOUVER, B.C. WINNIPEG, MAN.

THOS. C. IRVING, Gen. Man. Western Canada. Toronto.

WALKER'S QUICK AND EASY ICE PICKS



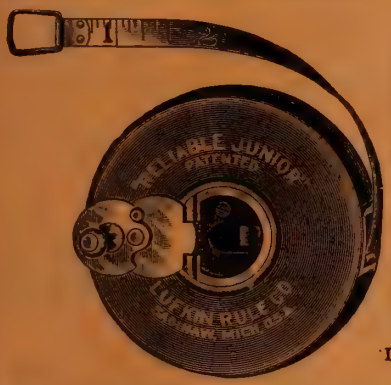
MADE OF CRUCIBLE STEEL, OIL TEMPERED, ANTI-RUST, NICKEL PLATED.
WILL NOT BEND, BREAK OR RUST. EACH ONE TESTED AND GUARANTEED.

ERIE SPECIALTY COMPANY, ERIE, PA.

IRON STEEL

Bars in Flats, Rounds, Squares, Ovals, Half-Ovals, Half-Rounds and Bands. Also Wrought Washers.
GOOD QUALITY. PROMPT SHIPMENT.

London Rolling Mill Co.
Limited,
LONDON, CANADA.



LUFKIN MEASURING TAPES

Steel, Metallic, Linen, Pocket, Ass Skin, Pat. Leather, Bend Leather, Etc.

ARE THE BEST AND MOST POPULAR TAPES IN THE WORLD.
YOUR STOCK IS NOT COMPLETE WITHOUT THEM.

LUFKIN RULE CO., Saginaw, Mich, U.S.A.

London Office and Warehouse—43 Lime St. New York City Branch—260 Broadway.

For sale by ALL PROMINENT CANADIAN HARDWARE JOBBERS.

THEY ARE GROWING:

—The capacity of our factory and its annual output ;
—Our list of customers, and the volume of our sales ;
—The popularity of our goods (and that is our great satisfaction)

BECAUSE

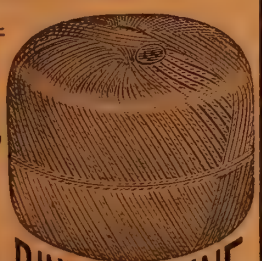
The 4 Maple Leaf Brands of Binder Twine

Have proven themselves to be



TRADE MARK
(Registered)

Best for the **FARMER** to buy to USE,
therefore
Best for the **DEALER** to buy to SELL.



BINDER TWINE.

GILT EDGE, 650 ft. Pure Manila
GOLD LEAF, 600 ft. Manila
SILVER LEAF, 550 ft. Standard Manila
MAPLE LEAF, 500 ft. Standard

Write for Samples and Prices.

The Brantford Cordage Company
BRANTFORD, CANADA. Limited

FIBRE

WE ARE MANUFACTURERS OF

FIBRE

Our Specialties are

Fibres, Glazed Hardware and No. 1 Manilla.

ROYAL PAPER MILLS CO.,

EAST ANGUS, QUE.



Est. 1866. Inc. 1895.

Black Diamond File Works

G. & H. Barnett Company

PHILADELPHIA

Twelve  Medals

Awarded
By **JURORS** at
International Expositions
Special Prize
Gold Medal at Atlanta, 1895

Copy of catalogue sent free to any interested file user upon application.



WALTER GROSE, Montreal, SELLING AGENT FOR THE DOMINION.

The Fisk
Detachable Motor Tire



The safest tire made. See how it curves around and forms a flat and solid base, which is fastened to a flat and solid rim.

This adds fifty per cent. to its safety. There's something to travel on, even when the tire is deflated. No matter what happens, it can't come off the wheel and there's absolute freedom from creeping or rolling.

Attachment or removal is quick and easy, with an ordinary wrench.

Manufactured in Canada solely by

THE GUTTA PERCHA & RUBBER MFG. CO.
OF TORONTO, LIMITED.

Head Offices:
47 YONGE STREET, TORONTO

Branches—MONTREAL, WINNIPEG, VANCOUVER.

Coil Chain

Black Tested Short Link

(British Manufacture)

Write for Prices to Import to

B. & S. H. THOMPSON & Co.
LIMITED

53 St. Sulpice Street, MONTREAL

SADLER & HAWORTH

"Extra" *"Standard"*

HIGH - CLASS

SPECIALISTS
—In—
Leather Belting

Talk it over with us when needing Belting.

LEATHER - BELTING

"Diamond" *"Agricultural"*

WAREHOUSES & FACTORIES
AT
MONTREAL and TORONTO.

CIRCULATES EVERYWHERE IN CANADA
Also in Great Britain, United States, West Indies, South Africa and Australia.

HARDWARE AND METAL

A Weekly Newspaper devoted to the Hardware, Metal, Heating and Plumbing Trades in Canada.

VOL. XVII. MONTREAL AND TORONTO, JUNE 3, 1905 NO. 22

ANVILS BITS
HENRY BOKER
MANUFACTURER
OF
ARROW BRAND
REGISTERED TRADE MARK
HARDWARE
SPECIALITIES OF ALL DESCRIPTIONS
PLYERS VICES
FOR SALE BY LEADING WHOLESALE HOUSES.

J L B L CANADA

If you are only doing cheap work you don't need

"QUEEN'S HEAD"

JOHN LYSAGHT, Limited, Makers, BRISTOL, ENG.
A. C. LESLIE & CO., MONTREAL Managers Canadian Branch



"THE WOODYATT"

"Give the Word"

Woodyatt

If there is a dealer in Canada who has never heard of **"THE WOODYATT" LAWN MOWER,** that dealer is not awake. 95 per cent. of the jobbers sell "The Woodyatt"—have no difficulty in selling them. "The Woodyatt" is in a class by itself—a class that has a big division between it and some of those shoddy-material American machines. "The Woodyatt" is made in 12, 14, 16, 18 and 20-inch sizes. **We can ship from stock now no matter how big the order.** Send for Lawn Mower Catalogue "C."

Taylor-Forbes Company

Montreal Branch :
9 De Bresoles St.

The Largest Manufacturers of Hardware in Canada. LIMITED.
GUELPH, CANADA

Classified List of Advertisements on Page 63.

FISHING TACKLE

It will pay the live hardware man to put in a line of fishing supplies, and our prices are right on these goods.

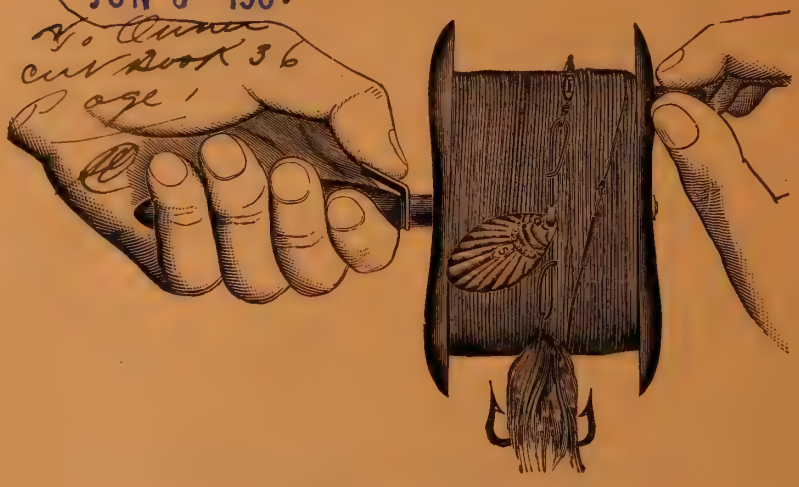
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RETURNED JUN 5 190



Trolling Bait

RETURNED JUN 5 190



Trolling Reels

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Trolling Bait

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Steel and Bamboo Fishing Rods.

WRITE FOR PRICES

RICE LEWIS & SON

LIMITED

TORONTO.

ALWAYS READY FOR USE



Full Hollow Ground $2.00 Each
Double Concave for extra hard beards, $2.50
Send for free book, "HINTS TO SHAVERS."

The CARBO MAGNETIC RAZOR

No Honing! No Grinding!

No Smarting after Shaving. With ordinary careful use will

KEEP AN EDGE FOR YEARS WITHOUT HONING.

Booklet coming—if you will ask for a copy, with trade discount.

FOR SALE BY LEADING JOBBERS.

FIRM OF
A. L. SILBERSTEIN, MAKERS OF "Griffon" Cutlery

459-461 BROADWAY, NEW YORK.

To the

Hardware Merchants

and

General Store Keepers

we solicit a call or inquiry.

THOS. BIRKETT & SON CO., LIMITED

WHOLESALE HARDWARE MERCHANTS

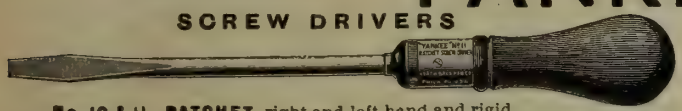
OTTAWA, ONT.

Other Tools are very Good Tools, but

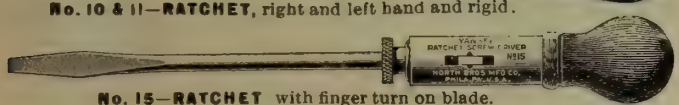
"YANKEE TOOLS"

ARE BETTER

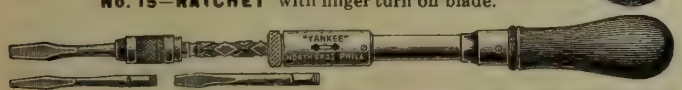
SCREW DRIVERS



No. 10 & 11—RATCHET, right and left hand and rigid.



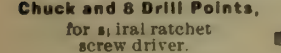
No. 15—RATCHET with finger turn on blade.



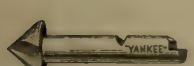
No. 30—SPIRAL RATCHET—right and left hand and rigid.
No. 31— " " " (heavy pattern)
No 20 - " " " right hand only.



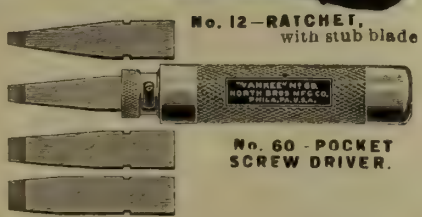
No. 12—RATCHET, with stub blade



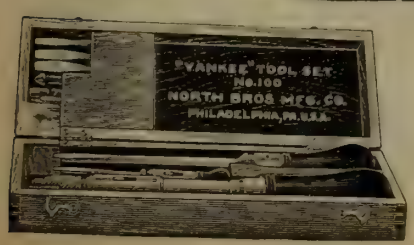
Chuck and 8 Drill Points, for spiral ratchet screw driver.



Countersink, for spiral ratchet screw driver.

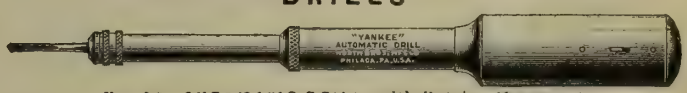


No. 60 - POCKET SCREW DRIVER.



The NEWEST, CLEVEREST and QUICKEST SELLING TOOLS of the KIND.

DRILLS



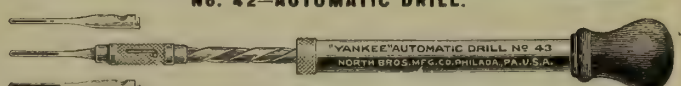
No. 40—AUTOMATIC DRILL, with Ratchet Movement.



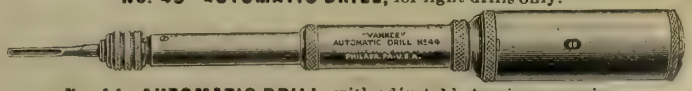
No. 41—AUTOMATIC DRILL.



No. 42—AUTOMATIC DRILL.



No. 43—AUTOMATIC DRILL, for light drills only.



No. 44—AUTOMATIC DRILL, with adjustable tension on spring.



No 50—RECIPROCATING DRILL, for wood or metals.

SOLD BY LEADING JOBBERS

SEND FOR OUR NEW "YANKEE" TOOL BOOK

NORTH BROS. MFG. CO.

PHILADELPHIA, Pa.

THE ARCTIC ICE CHEST



HANDY AND COMPACT
REFRIGERATOR

Made on Scientific Principles

Lined with Galvanized Iron.
Japanned in Oak and Ornamented. Nickel Plated Top.
Suitable for Yachting and Picnic Parties, Summer Residences, etc.
A boon in the sick room. Food for the invalid can be kept fresh and sweet at all times.

MADE IN THREE SIZES

No. 20—19 x 13¼ x 13¼
No. 30—23 x 16 x 16
No. 40—27 x 19¼ x 19¼

Prices on application to

The Thos. Davidson M'f'g Co., Limited
MONTREAL.

COPPER

Ingot Bar Sheet

Large Stocks Close Prices

M. & L. Samuel, Benjamin & Co.

503 Temple Building - TORONTO.

English House—16 Philpot Lane, LONDON, ENGLAND

STRAWBERRY ICE CREAM

At the end of THREE MINUTES

By using the Wizard of Success
—the Housekeeper's Favorite

Peerless Iceland Freezer

This freezer is made for the enterprising merchant whose customers appreciate a first-class article that has no complicated machinery to get out of order. :: :: ::

THE ONLY DASHER MADE ON SCIENTIFIC PRINCIPLES.

ALL METAL PARTS WHICH COME IN CONTACT WITH CREAM HEAVILY PLATED WITH PURE BLOCK TIN.



RETURNED
JUN 3 1905
To Montreal
Cat Book 35
Page 95

THERE ARE NO COGS ON CAN TOP TO GET OUT OF ORDER. MATERIAL AND WORKMANSHIP OF TUBS ARE THE BEST THAT CAN BE MADE FROM WOOD AND IRON.

Quarts 1, 2, 3, 4, 6, 8, 10, 12, 16

Miniature One Pint, built precisely after the pattern of the larger size.
For hotels or confectioners, crank or fly wheel, Quarts 20 and 25.
With power attachment, Quarts 25 and 40.

LEWIS BROS. & CO.

Ottawa
Toronto

IMPORTERS and DISTRIBUTORS
Always Address Head Office at
MONTREAL

Vancouver
Calgary

THE PROMPT SHIPPERS OF MAIL ORDERS

HILGER'S HARDWARE

Guaranteed Best Quality

SOLE AGENTS FOR CANADA

E. F. WALTER & CO., 166 and 168 McGILL STREET MONTREAL

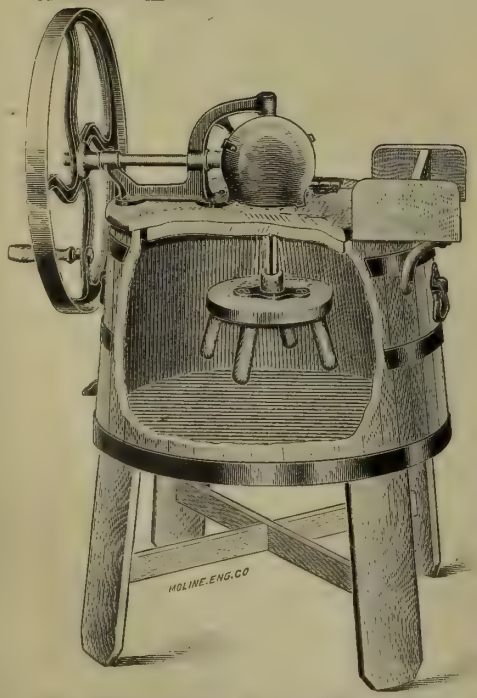
American Steel & Wire Co.

New York Empire Building | **Montreal** N. Y. Life Building | **Chicago** The Rookery

BARBED WIRE CALVANIZED PLAIN WIRE
PLAIN TWIST CABLE FENCING

Telegraph and Telephone Wire; Mattress, Broom, Weaving Wires of every description; Rail Bonds, Bale Ties, Special Wires for all purposes, Springs, Horse Shoes, Wire Rope, Cold-drawn Steel Shafting.

1905 Ocean Wave Washer



Accident Proof! Dust Proof!

SPECIAL FEATURES:

1st. Covered Gearing
which can be opened instantly to expose working mechanism.

2nd. Improved Dasher
We do not use **wooden** Dasher Pole.

3rd. Mechanical Movement Most Simple ever Constructed.

4th. The Best Seller
because it is more attractive than others.

Sold to only one dealer in each town.
Trial Order will convince.
Write us.

VOSS BROS. MFG. CO.——DAVENPORT, IOWA, U.S.A.

Have You Seen Them ?

For Beauty, Finish and Quality, the "Maple Leaf" Harvest Tools are unexcelled.



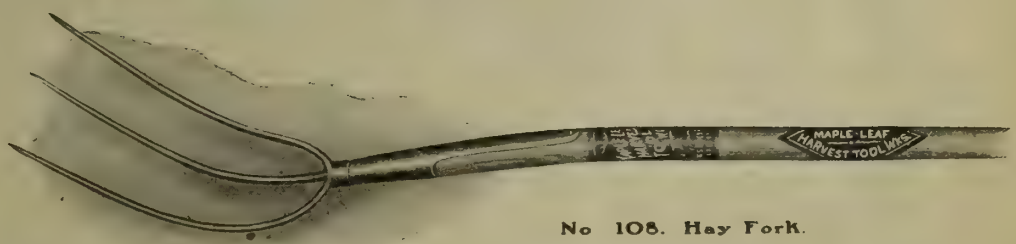
No. 122. Manure Fork.



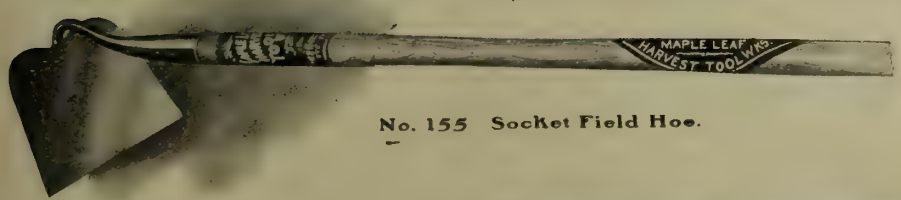
No. 138. Spading Fork.



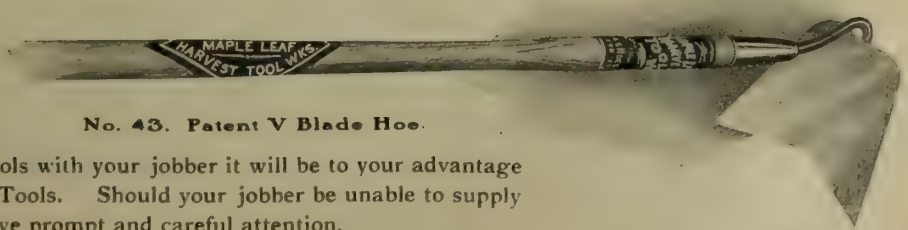
No. 243. Beet Fork.



No 108. Hay Fork.



No. 155 Socket Field Hoe.



No. 43. Patent V Blade Hoe.

TO THE HARDWARE TRADE—

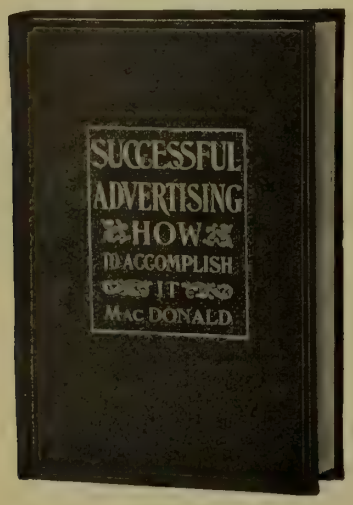
When placing your order for harvest tools with your jobber it will be to your advantage to specify for the **"Maple Leaf"** Harvest Tools. Should your jobber be unable to supply them, send your order to us and it will receive prompt and careful attention.

The Maple Leaf Harvest Tool Co., Limited, Tillsonburg, Ont.

SUCCESSFUL ADVERTISING

How to Accomplish It

By J. ANGUS MacDONALD



Competent critics have recognized this as the **Best Book on Advertising** yet published. It is a PRACTICAL work for advertisers and business men.

The *Brooklyn Eagle* says of Successful Advertising :

"Advertising is one of the biggest businesses—perhaps the biggest business—in the world. To treat of it comprehensively is as difficult as to treat comprehensively of military strategy or the making of a newspaper. Mr. MacDonald has succeeded. He has produced an admirable and exhaustive monograph.

"Perhaps the deepest pitfall into which an author might fall in writing upon such a subject as this is too much theory and not sufficient practicality. Most happily has Mr. MacDonald avoided this chasm: he writes from practical experience in the field, and his methods as presented have been given the thorough tests of time and circumstances.

"Any one with even a superficial knowledge of advertising cannot but perceive that in the many examples shown are evidenced a thorough knowledge of the subject and a businesslike and practical grasp of advertising which is far removed from the light, airy and entirely impractical and hare-brained stuff which is not uncommon in literature treating of the subject of advertising."

The General Advertiser, The Retail Advertiser, The Advertising Writer, The Mail Order Advertiser will find this work invaluable. The price is out of proportion to its worth. Cloth bound. 400 pages.

Postpaid $2.00 per copy

The MacLean Publishing Co. Limited

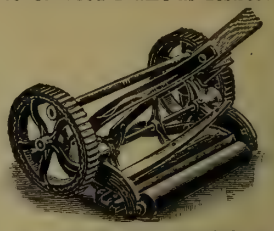
TORONTO MONTREAL WINNIPEG


Steel Frame Support

DAVID MAXWELL & SONS
ST. MARYS, ONT., CANADA.

"Maxwell Favorite Churn." PATENTED FEATURES: Improved Steel Stand, Roller Bearings, and Foot and Hand Lever Drive, and Detachable Driving Link. Improved for season of 1904. Steel or Wood Frame as desired.

Lawn Mowers. High and Low Wheels, from 12 in. to 20 in. widths. Cold Rolled Steel Shafting, Crucible Steel Knives and Cutting Plate.


MAXWELL MOWER
8-in. Low Wheel.

If your Wholesale House does not offer you these articles
SEND DIRECT TO US.



Wheelbarrows. In Four Different Sizes.

Ask for the J.C.M. Brand of Canadas

Galvanized—
3 Crown, Black
half-polished—
1 Crown.

APPLY TO First-class makes at low prices.

RD. JOHNSON, CLAPHAM & MORRIS, Limited
MANCHESTER, ENGLAND

THE ALGOMA STEEL CO. LIMITED

SAULT STE. MARIE, Ont.

is now booking orders for

STEEL RAILS

for late Summer, 1905, and early Spring, 1906, delivery. Parties intending purchasing will find it to their interests to let us have their specifications at an early date, so as to ensure desired deliveries.

DRUMMOND, McCALL & CO.
General Sales Agents

Office:
Canada Life Building, MONTREAL.

GREENING

WIRE ROPE

All kinds and sizes and for All Purposes.

STANDARD AND LANG'S PATENT LAY

ROPE FITTINGS ROPE GREASE

PRICES RIGHT **PROMPT SHIPMENTS**

THE B. GREENING WIRE CO.
LIMITED
HAMILTON, ONT. MONTREAL, QUE.

Dillon Hinge-Stay —Fence—



Don't let YOUR farmer customer go to the OTHER Hard ware for his fencing because you have none. If so, he is likely to get his Stove, Harvest Tools and other goods there, too.

Put in a small attractive stock of our 1905 DILLON fence ing, keep it where it can be seen and it will attract farm custom. Good margin in it for you, too.

OWEN SOUND WIRE FENCE CO., LIMITED,
Owen Sound, Ont.
MESSRS. CAVERHILL, LEARMONT & CO.,
(Eastern and Western Agents,) **Montreal and Winnipeg.**

DOMINION WIRE MANUFACTURING CO.
MONTREAL AND TORONTO LIMITED

TINNED WIRE
FOR
MATTRESS - BROOM - WHISK- BOTTLING AND BINDING PURPOSES.

PURE COPPER WIRE
FOR
TELEGRAPH - TELEPHONE - TROLLEY AND TRANSMISSION LINES

WOOD SCREWS

STEEL WIRE NAILS

WIRE HOOPS

Allow us to send you samples of these Hoops.
You will find them stronger and cheaper than wooden ones.

MADE IN CANADA

John Round & Son, Limited

Manufacturing
GOLDSMITHS and SILVERSMITHS
Contractors to
H. M. ADMIRALTY & WAR OFFICE

REGISTERED TRADE MARKS
JR & S — ALL THE ROUND — JR & S
ESTABLISHED 1847

Tudor Works:
SHEFFIELD, England
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14540.—FRUIT DISH

Manufacturers of all Kinds of GOLD, SILVER
ELECTRO PLATE ON NICKEL
and BRITANNIA METAL GOODS
Silver and Plated Cutlery
Steel Cutlery, Oak and Inlaid Goods
With Silver and Plated Mounts



31197.—E.P.N.S. CAKE BASKET

Our Manufactures have a world-wide reputation of over 50 years' standing. We are the largest makers of spoons in the world.

WE WANT TO MAIL OUR CATALOGUES TO ALL CANDIAN DEALERS
WILL YOU SEND US YOUR NAME?

HOTEL and **SHIP'S OUTFITS**, special goods for hard wear
Special designs for all purposes supplied free

WHATEVER YOUR REQUIREMENTS ARE DROP US A LINE

BOSS EXTERNAL GEAR

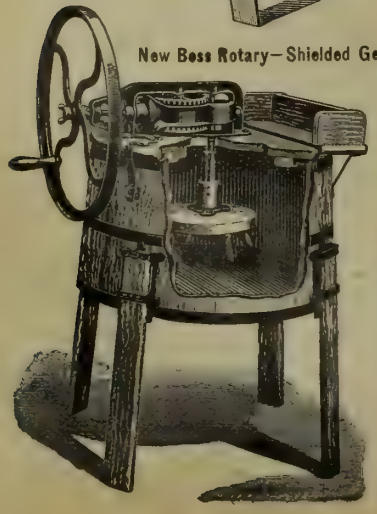


The World's Most Famous WASHERS

1904 AUTOMATIC



New Boss Rotary—Shielded Gears



Made by the largest Washing Machine Factory in the world. Capacity, 600 machines per day.



Exclusive Agencies Given

Write at once and secure agency, thus protecting your profits by avoiding competition. Address

WALTER WOODS & CO.
either at **HAMILTON** or **WINNIPEG.**

MANUFACTURED BY

BOSS WASHING MACHINE CO.
CINCINNATI, OHIO, U.S.A.



A Yard of Razor Blades

F. & W.

with the "Ever-Ready" Razor.

The idea is new.

Twenty-four keen-edged blades that give a velvety shave, one silver-plated holder, all in a neat, leather-lined case, comprise the "Ever-Ready" outfit.

Enough sharp blades to last two or three years without stropping or honing.

The outfit is a seller.

RETURNED
JUN 3 19
To Montreal
Book 35
Page 96

We have other styles of safety razor outfits.

Frothingham & Workman, Limited

Wholesale Hardware and Iron Merchants, - - Montreal, Canada.

For 96 Years Sellers of Hardware.



—FOR SALE BY—

The KENNEDY HARDWARE Co., Limited

49 Colborne St., TORONTO, Ont.



ONEIDA COMMUNITY'S WELDLESS COW TIES.

Illustration shows the

NIAGARA WIRE LINK

OPEN RING TYPE

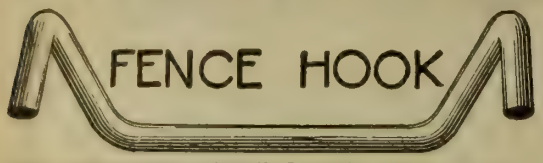
Also made in CLOSED RING, THREE CHAIN and DOMINION (or "Short") TYPES.

Oneida Community Cow Ties can be had of all the leading jobbers. We invite correspondence where any difficulty is experienced in obtaining our goods.

ONEIDA COMMUNITY, Limited

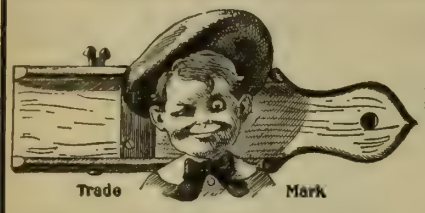
NIAGARA FALLS, ONT.

GALVANIZED FENCE HOOK FOR FASTENING WOODEN PICKET ON WIRE FENCES



WIRE NAILS, COILED SPRING, BARB and PLAIN FENCE WIRE, OILED and ANNEALED, CLOTHES LINE WIRE, STAPLES, etc.

THE WESTERN WIRE & NAIL CO., Limited, LONDON, ONT.



"LITTLE SHAVER"

A handy kitchen utensil for scraping chocolate, slicing small fruits and vegetables. Sells well at all seasons because always useful. Made of hardwood. Blade of finely tempered steel.

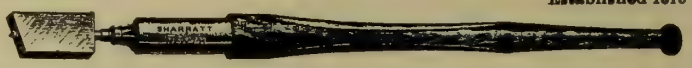
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J. M. MAST MFG. CO.,
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GLAZIERS' DIAMONDS

Sharratt & Newth
43 and 44 Percival Street, - London, England
Contractors to H. M. Government and the Principal English Sheet and Plate Glass Works.
Established 1815

ALSO
Lead Vices,
Carbon Tools,
Etc., Etc.,



Agents for Canada: A. Ramsay & Son Company, Montreal

GLAZIERS' DIAMONDS



Ahead of all others in **quality** and **workmanship**. If **sparks** of **fine quality, set by experts**, are what you require, buy Diamonds of **A. Shaw & Son's** make.

Canadian Agent
GODFREY S. PELTON
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CELEBRATED HEINISCH SHEARS

Tailors' Shears,
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Tinners' Snips, etc.



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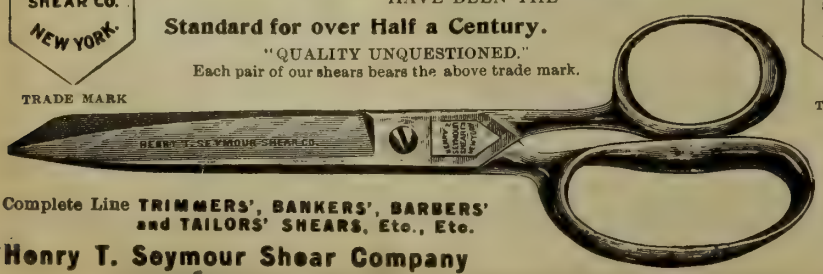
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HENRY T. SEYMOUR SHEAR CO. NEW YORK. TRADE MARK

SEYMOUR SHEARS

HAVE BEEN THE
Standard for over Half a Century.
"QUALITY UNQUESTIONED."
Each pair of our shears bears the above trade mark.

HENRY T. SEYMOUR SHEAR CO. NEW YORK. TRADE MARK



Complete Line **TRIMMERS', BANKERS', BARBERS' and TAILORS' SHEARS, Etc., Etc.**

Latest Catalogue will be sent in exchange for your business card.

Henry T. Seymour Shear Company
WIEBUSCH & HILGER, Limited, NEW YORK, Sole Agents.

Mr. Dealer:



Do you know there's a demand for a *good* steam cooker which you should supply? The profit on goods you are "out of" will never come back. We prefer to sell a progressive dealer rather than direct.

IDEAL STEAM COOKERS

are advertised thoroughly in all the national publications from Ladies' Home Journal down. Get our proposition—it means profits—*Dollars*—to you. We are the largest manufacturers in the world. Our lines are complete. We make all good kinds—Square (with whistles) Round (with whistles) in all desirable sizes, at all prices. 36-PAGE BOOK FREE—Write for it to-day, with confidential prices to dealers.

J. A. Ross
Sole Canadian Agent
141 Bannatyne Ave.
Winnipeg, Man.

MAPLE LEAF
STITCHED COTTON DUCK
BELTING
DOMINION BELTING CO. LTD.
HAMILTON CANADA

OIL WELLS

ON ACCOUNT OF THE RAPID DEVELOPMENT IN THE CANADIAN OIL FIELDS, WE HAVE EQUIPPED OUR MILLS WITH SPECIAL MACHINERY FOR MANUFACTURING

OIL WELL CABLES
SAND LINES
SUCKER ROD LINES
TORPEDO LINES
BULL ROPES

WE ARE PREPARED TO SUPPLY CABLES IN EXTRA LONG LENGTHS WITHOUT SPLICE.

ONE OF OUR CUSTOMERS, A VETERAN DRILLER, WRITES:

"I have had thirty-four years at the business, and have had such splendid satisfaction out of those ropes you made me. I must say they wear well and give the best of satisfaction, and it is with much pleasure I send my orders straight to the firm, knowing I am sure of a good article."

CONSUMERS CORDAGE CO., Limited

Mills—MONTREAL and HALIFAX. MONTREAL.

BRANCHES:

W. A. C. Hamilton, Toronto, Ont. F. H. Andrews & Son, Quebec, Que.
Merrick, Anderson & Co., Winnipeg, Man. MacGowan & Co., Vancouver, B.C.
Consumers Cordage Co., Ltd., St. John, N.B.

Sort Up Your Stock

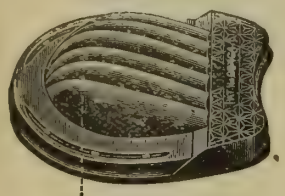
Ever Think of **HORSE SHOE PADS** as a Stock Line?



Summer days are here. Horse Shoe Pads sell like hot cakes these out-door months of May, June and July. Write any of our Sales Branches for illustrated descriptive literature on our full range of Horse Shoe Pads. :: :: ::

THE CANADIAN RUBBER CO. OF MONTREAL. TRADE MARK

Look for this Trade Mark on every Pad.



See that Cushion?
It fills with air at each step.
That's what breaks concussion.
That's what prevents slipping.
That's what keeps the foot healthy.
That's what cures lameness.

Horse Shoe Pads lengthen the life of a good horse; improve a poor horse out of sight.

Sales Branches and Warehouses:

172 Granville St., Halifax, N.S. | Imperial Bank Building, Montreal, Que. | Front and Yonge Sts., Toronto, Ont. | 89 Princess St., Winnipeg, Man. | 403 Cordova St., Vancouver, B.C.

THE CANADIAN RUBBER Co OF MONTREAL.

LIMITED



Novelty Refrigerators and Water Coolers

Made of Heavy Galvanized Iron. Finished in Oak with Gold Bands. Nickel Plated Faucets. 3 sizes.

Ice Cream Freezers

We handle the "Lightning" Quadruple Action Freezer. Sizes 2 to 20 quart—the best on the market to-day. Also the "Blizzard" Single Action Freezer. Sizes 2 to 10 quart.



For a low priced freezer there are none better than the "Blizzard."

WE WILL BE PLEASED TO QUOTE YOU

KEMP MANUFACTURING CO., TORONTO, ONT.

THE KEMP MFG. AND METAL CO., LIMITED,
McDermot Ave. East, Winnipeg, Man.

THE KEMP MFG. CO. OF MONTREAL,
58 McGill St., Montreal, Que.

TWO NEW PROVINCES

DURING the last two years attention has been directed to the rapid growth of the Canadian Northwest by two important bills before the Dominion Parliament. These were the bill providing assistance to the Grand Trunk Pacific Railway Co., and the bill providing for the autonomy of two new provinces to be carved out of the vast western expanse, hitherto known vaguely as "The Territories." An excellent advertisement of the development of the country has been afforded by these bills. Each has provoked no little controversy. A general election was fought mainly on the Grand Trunk Pacific Bill and the alternative of Government ownership of the road; and all the world knew, by reason of the sound thereof, that Canada proposed building a second transcontinental railway. The obvious inference as to the development of the country which made this railway necessary was drawn the world over. It was not so well known even in Canada that the Canadian Northern interests were already at work constructing a second transcontinental railway, and that the G.T.P. is in reality the third. The incident serves to show the value of political controversy as an advertisement of national progress.

Canadians appreciate the value of the advertisement which the formation of two new provinces must afford us in foreign countries and in other parts of the Empire. The mere fact that in order to secure the proper administration and government of the Northwest it is necessary to divide a part of it into the two vast provinces of Saskatchewan and Alberta is sufficient evidence of the growth of the Canadian west. Hitherto the Province of Manitoba has been, with many people, synonymous with Western Canada. Now its Government and people protest that in comparison with the two vast provinces about to be created it is as a mere "postage stamp" on the map of Canada. Without expressing any opinion as to the rights or wrongs of Manitoba in this regard, it may be pertinent to remark that the vigorous agitation of the aggressive Premier Roblin and his associates in the Provincial Government has served to emphasize the fact that the Province of Manitoba, as at present constituted, is a very small part, indeed, of the great wheat-growing country.

Similarly, while the party and sectarian strife which has been precipitated by the educational clauses of the Autonomy Bill is in itself very much to be regretted, it has at least had the good effect of attracting wide attention to the fact that two new provinces are being created. And that in itself is a good effect, whatever may be the different opinions held as to the wisdom of the educational clauses of the bill.

Publicity Welcomed.

Publicity, however obtained, is welcomed in Western Canada because it is believed that the country needs only to be known to be appreciated abroad. For decades Canada has been unknown and her possibilities unappreciated chiefly because she has been overshadowed by her prosperous neighbor to the south. "America" has been the Mecca of the hopes and ambitions of those living in the Old World who were anxious to better their fortunes in the New; and for too long "America" has meant only the United States. "To him that hath shall be given," and our prosperous Uncle Sam continued to attract more immigrants and more capital to the undeveloped west simply because the tide of emigration and capital had set towards the United States long before the Dominion Confederation was formed and the Canadian prairies rendered accessible by the building of the Canadian Pacific Railway. But when the vacant lands in the United States were filled and free homesteads were no longer to be had, attention was at last directed to the great Canadian west.



Edmonton, Capital of New Provinces of Alberta. (View from river bank looking west.)

Wheat Production.

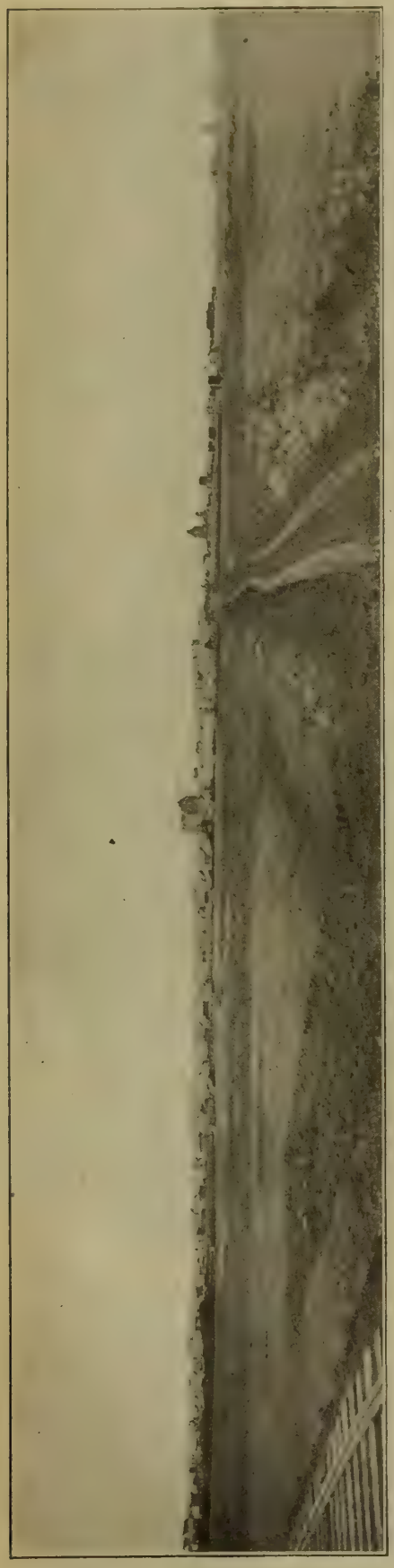
The wonder is that so long time was required to direct attention to Western Canada. More than three-fourths of North America's total hard wheat area lies north of the international boundary line. Moreover, the soil is more productive than in the United States. In Manitoba the average yield is much in excess of that of any state in the Union. Only in the highly-fertilized farms of Great Britain, where the cost of artificial fertilizers for a single season is eqnal to the entire cost of the land in Manitoba and the Territories, is the yield exceeded. Crop reports have been compiled by the Government of Manitoba for twenty-two years, and these show the average yield of wheat during that period to be 20½ bushels per acre. Comparisons are interesting. The average in Ontario is 15½ bushels, in the Dakotas, 13, in Minnesota 14½, in Iowa and Nebraska between 11 and 12. Manitoba's average constututes a record amongst the wheat-growing sections of the American continent.

Figures are not available as to the productivity of the new provinces for so long a period as it is only since 1898 that official and accurate returns have been compiled by the Government of the Northwest Territories. The returns obtained since that date have been as accurate as it is possible to get them, as every thresher has been required by law to return to the Department of Agriculture a complete statement of the grain he has threshed. These returns show an average yield of almost 20 bushels per acre—19.88 to be exact.

It is not surprising, therefore, that American farmers are selling their farms and moving across the international boundary line where free homesteads can be obtained from the Government and where the land is more productive.

Only a very small portion of the Can-

adian west has yet been cultivated, and the greater part of the vacant land



Regina, Capital New Province of Saskatchewan.

suitable for the purpose lies in the two new provinces of Saskatchewan and Alberta. Out of a total of 400,000,000 acres suitable for wheat cultivation, not more than 80,000,000 acres have been taken up. That is, four-fifths of the Great West remains unappropriated. Making a liberal deduction for lands which are water covered or for any reason unsuited for settlers to go in and raise crops immediately, there remain more than 250,000 000 acres of the best wheat-growing land in the world waiting for the settler. At a rate of yield less than one-half the average of Manitoba for twenty years back, this now uncultivated area would produce one-fifth more than all the wheat grown throughout the whole world each year at present. The average annual wheat crop of the world is about 2,750,000,000 bushels. Of this the United States produces a little less than one-fifth and Minnesota and the Dakotas one-eighteenth of the whole. The annual quota of these great wheat-raising states will appear insignificant by comparison in a very few years when the area under cultivation in Manitoba and the new provinces to be created is immensely larger than at present, and wheat from Western Canada is pouring in vast volume into the world's markets.

Business Possibilities.

Now all this is of interest and importance to the business man, the manufacturer, wholesaler and retailer, as well as to the farmer and intending settler. The vast possibilities of the western country are attracting new settlers by the thousand. According to J. Obed Smith, the energetic and capable Dominion Immigration Commissioner in Winnipeg, 119,000 declared settlers came to Western Canada last year and took up land. This year, the numbers coming promise to be much greater, and the majority are men with some capital to start operations. Plainly the present influx of settlers is only a beginning and the next decade will see a development greater than any in the past.

It must occur to every business man that the growth of the Canadian West means the creation of an immense new market for manufactured goods of all kinds. A new population has everything to buy, and in the west it very soon has money to pay its bills. The west has always money to spend and the average westerner is lavish in the spending. His contempt for a dollar surprises the frugal Easterner at first, but the surprise soon wears away and the easterner who settles in the west is soon as prodigal as his neighbor. The west is made up of good customers.

Hence, eastern manufacturers are running their factories overtime to provide for the ever-increasing wants of the west, and eastern jobbing houses are busy filling orders. Hence, also, the growth of distributing centres in the west. Manufacturers are yet few in number, but the jobbing houses in the west—their name is legion. Winnipeg is the distributing centre for the west and at present has almost a monopoly. But her supremacy will not always be unchallenged. Fort William, with its Grand Trunk Pacific terminals and its advantageous position on the lakes, aims at being not only a shipping point, but the distributing centre for heavy goods in the west. At present many Winnipeg wholesale firms maintain warehouses in Fort William and ship from that town direct to their customers. West of Winnipeg, Brandon has some claims as a distributing centre. It is to be expected that the two capitals of the new provinces will also be important as points for distribution of manufactured goods.

Winnipeg's Growth.

Some idea of the future of Regina and Edmonton may be gathered from the history of Winnipeg. The new capitals are still comparatively small towns, but there is no reason to doubt their rapid growth as distributing centres. Thirty years ago Winnipeg was a very small village; to-day it is a city of 90,000 to 100,000 inhabitants, and it is only on the threshold of its greatness. The west has room for millions of settlers on its fertile prairies and no one doubts now that they are coming in a few years. To supply their wants, large distributing centres must spring up and not only the towns mentioned, but many others must develop enormously. The business man who stakes his future upon the growth of the west cannot well make a mistake.

THE ALL-STEEL WARDROBE.

IN large manufacturing establishments and other places where a number of employes must change their clothing during the working hours, provision must be made for its storage and care. It is important that the clothing shall be stored under conditions of safety to all concerned, not only in reference to sanitary conditions, but also against



fire. A receptacle which is claimed by the General Fire Proofing Co., Youngstown, Ohio, to possess the requisite qualifications is the all-steel wardrobe shown in the accompanying illustration. It will be noted that its construction is entirely of metal and provides for a free circulation of air, also that it does not add to the material for combustion in case of a fire.

WIRE NAILS
TACKS
WIRE

Prompt Shipment

The ONTARIO TACK CO.
Limited.
HAMILTON, ONT.

Trade Conditions in Birmingham

By H. B.

Birmingham, May 18, 1905.

ON all sides one hears of a general improvement in trade. But the recovery is slow—hindered by the scarcity of money. There is plenty of money in the country and a low bank rate renders it cheap, yet it refuses to circulate. Since a former period of acute and long-continued depression, conditions have altered greatly. The marked tendency of wealth to accumulate in the hands of the comparative few—to centralize amongst the rich financial and leisured classes, retards its return in volume to the manufacturing and working community, who are the principal factors in effecting its circulation.

A favorable Spring, the almost universal depletion of stocks, and the undoubted improvement in trade, all point to the coming of better times for employers and employed.

Birmingham, from its central position and the variety of its manufactures, is probably in closer touch with all other parts of the country than any other provincial city, and from London, the north and other centres, the reports of manufacturers are the same—an increasing demand hampered by shortness of money, but general conditions that point to returning prosperity.

The high price of raw material, due to restricted production in several quarters, has had a somewhat quieting effect upon the current week's iron trade. Prices remain as they were, with marked bars at £8, medium qualities £6 5s. to £6 10s. The galvanized sheet, wagon building and constructive engineering trades are reported as exceptionally busy, and kindred trades are beginning to feel the effect of renewed activity. Taking a survey of the situation one observes a very decided tendency towards stability, and although there are still plenty of men unemployed, their numbers are evidently decreasing. No doubt the open weather has something to do with it, but other influences are also at work.

The questions of Canadian postal rates and Canadian custom regulations have been recently engaging the attention of the Birmingham Chamber of Commerce. At a meeting held this week a report was submitted showing that while the postal rate on magazines, newspapers and periodicals despatched from the United States to Canada was one cent (or one half-penny) per lb., and from Canada to the United Kingdom one-half cent. per lb., the rate from the United Kingdom to Canada was no less that four pence per lb. In regard to this incongruous arrangement the Postmaster-General had been approached upon several occasions, but to no effect, and it was decided to make a fresh representation upon the subject. Another grievance is the exorbitant postal rate for magazines, periodicals and newspapers printed in Canada and re-posted here for circulation in the United Kingdom. In some cases the rate is as much as five times that charged upon similar matter printed and posted in England.

The reply of the Canadian Government to representations made by the Chamber in regard to the regulations prescribed by the Dominion to prevent "dumping," although not considered to be as favorable as could be wished, was regarded by the Chamber as displaying a desire on the part of the Canadian Government to act with every consideration towards the British exporter, and to do everything possible to facilitate Anglo-Canadian trade. Under the new regulations the Chamber considered it difficult for the Canadian importer to ascertain the laid-down cost of British goods in Canada, because it was hardly possible to avoid discrepancies in the appraisement by various officers and at various ports. The Canadian Government, however, considered the difficulties apprehended would not be experienced, although it was admitted that difficulties of this character were inherent in ad valorem tariffs. With a view to minimise these difficulties, all appraisements made at various ports throughout the Dominion were subject to supervision and review by a checking branch at Ottawa. The Canadian Government stated that after careful consideration of the suggestions made by the Birmingham Chamber they were strongly of opinion that in practice it would be found that the new legislation, coupled with the very substantial advantages given under British preferential tariff, would prove beneficial to British trade with Canada.

TAXITE
REGISTERED

is a good paint and varnish remover to sell and a good paint and varnish remover to use. It gives a good profit to the dealer and saves time and labor for the customer.

Taxite removes paint and varnish much more quickly and easily than by the old method of burning. Taxite obviates all danger from fire and leaves the surface in best possible condition for refinishing. Simply apply with a brush, and after allowing to stand ten or fifteen minutes, scrape off with a knife, then wipe dry and clean with a cloth.

Taxite does not leave a bad odor, contains no injurious material that will hurt hands or delicate woods.

Put in a stock of Taxite. It is a specialty that can be sold successfully to every painter and housewife.

Put up in ½ pints to barrels. Write for prices and information.

THE SHERWIN-WILLIAMS CO.
PAINT AND VARNISH MAKERS.

Headquarters and Plant: 639 Centre Street, Montreal, Que.
Offices and Warehouses: 86 York Street, Toronto; 147 Bannatyne Street, East, Winnipeg, Man.

1424

TO HARDWARE DEALERS.

AS the farmer is the sinew of the country in agriculture, so the merchant and dealer are the sinews of trade and commerce, hence the necessity of a full knowledge of the industries and products of the country in compact form for the merchants' and dealers' information and guidance.

The up-to-date merchant is not relying wholly upon the traveling salesman for information, nor "Hellowing" to his neighbors for information as to who manufacturers this or that article when he can get all such from a two-dollar book that is now on the market.

The Manufacturers' List Co., Montreal, issue: The Canadian Industrial Blue Book, Buyers' Guide of Canada, 1904-7, 576 pages, cloth bound, price $5; A Classified Article List of Industrial Products for Canadian Buyers, 1905-6, 400 pages, cloth bound, price $2. Both books to one address, $5. (adv.tf).

CATALOGUES AND BOOKLETS.

For the convenience of its readers HARDWARE AND METAL has opened its columns for the review of catalogues booklets or other such publications issued by manufacturers or wholesale dealers selling to the hardware, plumbing, machinery or metal trades. Retailers desiring such publications may also have inserted a note to that effect. It is requested that when any of the trade write for any booklet mentioned in these columns that they credit HARDWARE AND METAL as the source of their information.

Blacksmiths' Supplies.

The Northwest Machinery & Iron Co., Winnipeg, have forwarded us a copy of their catalogue No. 2, and will send one to any hardware dealer who mentions having seen this offer in Hardware and Metal. The book comprises 112 pages and cover, and is replete with illustrations of tools, machines and supplies required by blacksmiths and carriage makers. Elaborate price lists are also included, making the book a handy one for every handler of these goods to have.

The "S.W.P."

The Canadian Customs Department has placed a duty of 15c. per pound on "The S.W.P." and "The Chameleon," issued by the Sherwin-Williams Paint Co., Cleveland, and sent to the paint trade in Canada for advertising purposes. The May number of the former publication is an exceptionally good one.

Diamond Shears.

The Diamond Shear Co., Wilmington, Delaware, have issued a catalogue of their line of sheep, mule, grass and hedge shears, which can be secured from Smith & Hemenway, 296 Broadway, New York, by mentioning the name of this journal.

Catalogue C.

The Canadian Rubber Co., of Montreal, are issuing some fine trade catalogues. Their latest publication, Catalogue C, covers very completely the druggists' supplies, and sporting goods and stationers' supply departments. The interesting character of the illustrations reflects great credit on the progressive ideas of this company. Catalogue C is composed of 86 pages, printed in four colors, with a handsomely embossed cover in black and red. A copy of this catalogue can be received free upon request if this journal is mentioned.

New Standard Circulars.

Smith & Hemenway Co., New York, have changed their system of sending out circulars to the trade, and what is known as their Standard circular, $3\frac{3}{8}$ x $6\frac{1}{4}$ inches in size, will be used in future. Ones now being sent out include illustrations of the Seavey mitre boxes, Red Devil glass cutters, giant nail pullers, the Utica Drop Forge & Tool Co.'s "Black Bull" fence tool, and the acme ball bearing casters. Any of these circulars will be sent on request of any person who mentions this journal when writing.

A New Catalogue.

The United Brass Mfg. Co., Cleveland, Ohio, who have appointed R. J. Cluff & Co., Toronto, as their Ontario agents, are preparing a new catalogue of brass goods for the plumbing trade. Those desiring to secure a copy should send their names to the address in Cleveland, mentioning this journal when writing.

There are ***HAMMERS*** *that "Knock," and there are* ***HAMMERS*** *that convince. We employ the convincing kind; for instance, we say contact with the Hammer will not discharge an*

IVER JOHNSON REVOLVER

And then we use our ***HAMMER*** *just to demonstrate the truth of our assertion. We call this a convincing argument, not "Knocking."*

Hammer the Hammer



Send for literature.

IVER JOHNSON'S ARMS & CYCLE WORKS,
FITCHBURG, MASS.
New York Office: No. 99 Chambers Street.

A Novel Idea.

A handsomely-illustrated catalogue has just been issued by the Savage Arms Co., of Utica, N.Y., consisting of forty-eight pages, tastefully decorated throughout. Full information is given regarding every pattern of firearm and every style of ammunition manufactured by this company. Lewis Bros., wholesale hardware merchants, of Montreal, have secured a number of these catalogues, and over the outside cover they have had placed another cover manufactured of leather. On this cover is printed the name of the manufacturers of the firearms and the name of the traveler representing the above wholesale house. The method is an ideal one and should cause considerable attention throughout the trade. If you send for a copy, mention this journal.

Water Wheels.

The above title is the name of a catalogue just issued by the Abner Doble Co., manufacturers of machinery, at San Francisco. Interesting illustrations and valuable information occupy the first portion of the catalogue, while the tables and rules, in the second part, regarding friction, velocity, weight and thickness of plate for certain purposes, and other rules, are of such value that every person interested in machinery should obtain one. These catalogues may be had upon request of the John McDougall Caledonia Iron Works Co., Limited, of Montreal, who have lately been appointed sole Canadian agents for this American firm. Mention the name of this publication when writing.

Gas Arc Lamps.

A neat pamphlet illustrating the Columbus gas arc lamps, manufactured by the Federal Mfg. Co., Columbus, Ohio, is available to any reader who sends a post card requesting a copy and mentioning Hardware and Metal. The lamps and fixtures shown are made in attractive designs and the booklet is well worth the trouble of sending for.

Gray's Elbow Patterns.

The David Williams Co., 232 William street, New York, have sent Hardware and Metal three samples of Gray's elbow patterns, which are invaluable to any metal worker and will be sent to any user of this class of goods who mentions seeing this offer in Hardware and Metal. Directions to use the patterns are sent with the blue prints, which if kept carefully will last a life time.

Babbitt Metals.

W. G. Harris, dealer in metals, Toronto, has issued a neat booklet entitled "Facts about Babbitt Metals." The book contains many illustrations and full descriptions of the Harris lines, while on the cover is a good likeness of Mr. Harris himself. Send for a copy and mention Hardware and Metal.

H. S. HOWLAND, SONS & CO. LIMITED

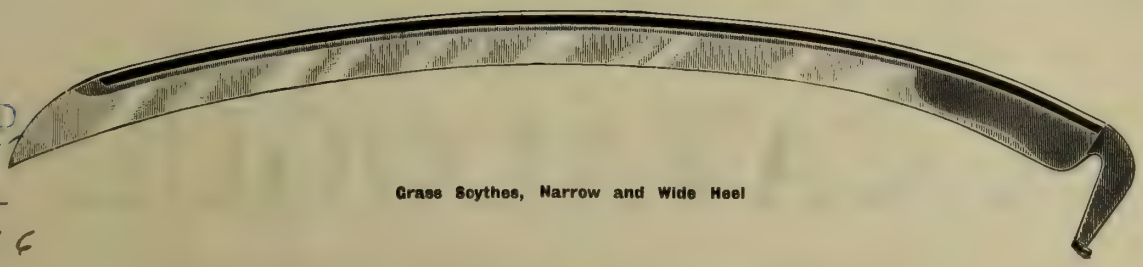
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To Owner
Book 36
Page 2



Grass Scythes, Narrow and Wide Heel



No. 3 Drive Ring



No. 2 Drive Ring



No. 1 Drive Ring, 2-Hole



Butter Worker



Loop and Solid Plate



Loop and Patent Swing Socket



Double Ring Bush

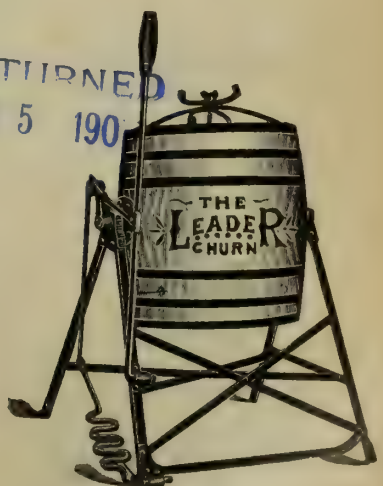
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By M. J. Quinn, Mechanical Superintendent for the Ontario Government.

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Article V.

TO CONNECT BREAK SYPHONS.

FOLLOWING our article on "Trap Vents and Break Syphons," we illustrate this week two methods of connecting the break syphons to the stack, or soil pipe; one, Fig. 1, showing

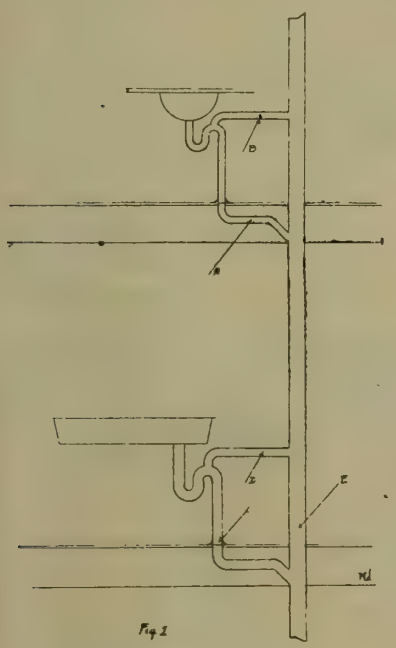


Fig 1

a very faulty method, combining many bad features, and the other, Fig. 2, showing the proper method.

It will be remembered that in the last article dealing with the subject, mention was made, incidentally, of the fact that where "break syphons" are connected to the stack, and not run through the roof separately, the connection should be made above the highest fixture, as in Fig. 2.

The great reason why breaks should not be connected as in Fig. 1, is that serious stoppages may occur in several parts of the system, and because of the fact that the waste water may escape through other than the proper channel, the accumulation of filth may increase to such proportions that it cannot be cleared away without, in many instances, removing the pipe.

For instance, referring to Fig. 1, let us assume that something has caused a stoppage at "A" with the break "B" connected to the stack below the basin; there is nothing to prevent the waste water from escaping through it without causing the water level to rise in the basin, therefore giving no warning of any defect until the waste pipe between "A" and "B" became filled up with foul matter, which, being tightly packed, would be difficult to move.

In the case of the sink the same condition is found at "C" and "D."

A more serious complication might arise, however, if a stoppage occurred at "E," and a stoppage at that point might remain for some considerable time undiscovered, because the waste could escape from the basin down through "D" and "C," which, as will be seen, would really form a by-pass around the obstruction.

All these difficulties may be overcome by connecting all break syphons to the stack above the highest water line, so that when any obstruction occurs it will at once be detected, and there is the additional safeguard, in the case of the sink, that waste from the closet,

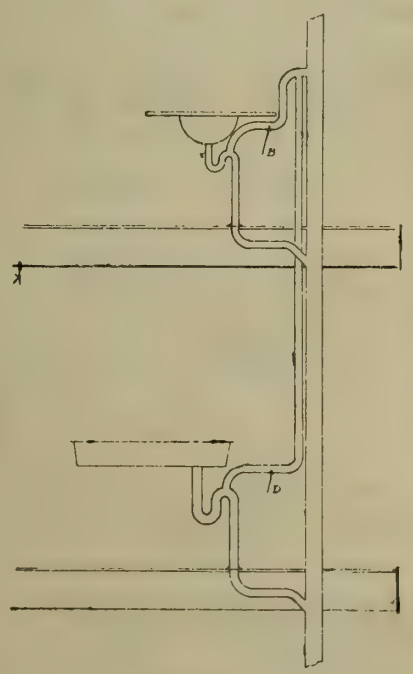


Fig. 2.

which is usually placed above it, cannot possibly find its way into the trap of the former.

BOILERS IN SUMMER.

When hot water boilers are not is use, as during the Summer, it is considered advisable to draw off the water, clean the flues thoroughly and pour a little machine oil between sections with the aid of a short length of pipe fitted with an elbow. This will prevent the accumulation of rust at these points of junction. Taking off the smoke pipe, shaking out the soot and putting it away in a dry place will prolong the life of this necessary appurtenance to the boiler.

NEW BOOK FOR PLUMBERS.

"THE ART OF LEAD BURNING" is the title of a cloth-bound book just from the press of the David Williams Co., 238 William street, New York. The book is of standard size, has 144 pages, and 52 illustrations, and sells for $2. It is the first treatise to explain in detail every part of the apparatus and fixtures in common use in lead burning, as well as the methods or processes employed in the art. The growing use of lead lined tanks designed for use as pickling vats, for storage battery use, for hot cyanide solutions and for the general case of holding acids, makes the appearance of the book particularly timely. There are many instances where people would be glad to know of the comparative ease with which chemically tight tanks are obtainable—that is, such as lead lined tanks, the joints of which can be fused together without the use of solder, which itself can resist the attack of few acids. In short, then, the volume has been written specially for the plumber, to give him the opportunity to familiarize himself with the subject of lead burning, and thereby to develop a promising line of business.

The arrangement of the book appears to be a notably original one, and it is divided into relatively small parts, written in an unusually entertaining fashion, so that the reader will really find it easy to master the subject section by section. An important feature of the volume is that it describes how to build one's own gas generator. It then proceeds to show how to connect the apparatus, how to charge gas generators and how to handle the flame. The different kinds of seams are discussed, and some special information given on acid chamber work, on a special hydrogen apparatus and burner and on soft soldering with the mouth blow pipe. The book is a compilation of articles which appeared in the Metal Worker, Plumber and Steam Fitter recently, the author being C. H. Fay. Orders in Canada will be filled by Hardware and Metal's book department.

HEATING LARGE BUILDINGS.

THE growth of the modern system of heating by a forced circulation of warm air presents an interesting example of the influence of commercial practicability upon the introduction of a given method or system. For

fully a century prior to 1870 various means, many of them extremely crude, had been adopted for forcing heated air through pipes from a central heater and thereby warming distant apartments. In the period from 1848 to 1870 large fans moving air over steam heated surfaces were introduced here and there in large buildings such as hospitals and asylums. But such applications were distinctly limited because both fan and heater had to be specially designed and constructed for the work.

It was not until 1869 that such a heating apparatus became commercially practicable. At that time B. F. Sturtevant, of Boston, Mass., who had been for some years engaged in the manufacture of fan blowers, conceived the idea of attaching a small tubular heater, through which air was drawn and heated and forced by the fan to the distant points. The entire arrangement was compact, portable and easily applied, particularly to small apartments. Large installations, however, required a sectional type of heater, and in course of time there was evolved the present type of Sturtevant heater, consisting of a series of cast iron sections, into which a system of steel steam pipes is screwed and through which the steam circulates. The sections, made in quantity in standard sizes, are grouped to conform with the requirements and connected to the fan in such a manner as to insure its most efficient action. Without some such simple and marketable arrangement it is doubtful if even to this day the benefits of mechanical ventilation and heating would have been realized.

HOW TO DISTINGUISH STEEL FROM IRON PIPE.

THE following bit of useful information is taken from the Valve World, the new monthly publication of the Crane Co., Chicago, Ill.

Iron pipe is rough in appearance and the scale on it is heavy, whereas the scale on steel pipe is very light and has the appearance of small blisters or bubbles, underneath which the surface is smooth and somewhat white. Steel pipe seldom breaks when flattened, but if a fracture does occur it will be noticed that the grain is very fine. Iron pipe when subjected to this test breaks easily, and shows a coarse fracture, due to the long fibre of the material.

The impression prevails with many that steel pipe is exceedingly hard, for which reason they imagine that it is threaded with difficulty and that the threads are easily broken off. This is erroneous, the truth being that steel pipe is soft and tough. The threads of this pipe do not break, but they tear off, to avoid which it is necessary that the cutting die shall be sharp so as to cut above the centre. Dies suitable for steel pipe can also be used on iron pipe, but blunt dies that will work successfully on iron pipe will tear the threads on steel pipe, owing to the softness of the metal.

APPOINTED ONTARIO AGENTS.

Mr. Charles A. Stone, senior member of the United Brass Mfg. Co., Cleveland, Ohio, and Mr. S. P. Schoenberger, general salesman of the company, spent several days in Toronto during the past week, and as a result of their visit have concluded arrangements with R. J. Cluff & Co., to act as their representa-

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Have been on the market for about 25 years. Long enough to test them—and they have not been found wanting.

The pattern is right—so is the material. Every nail is carefully inspected, and passes through several hands before being packed—ensures absolute freedom from imperfect nails.

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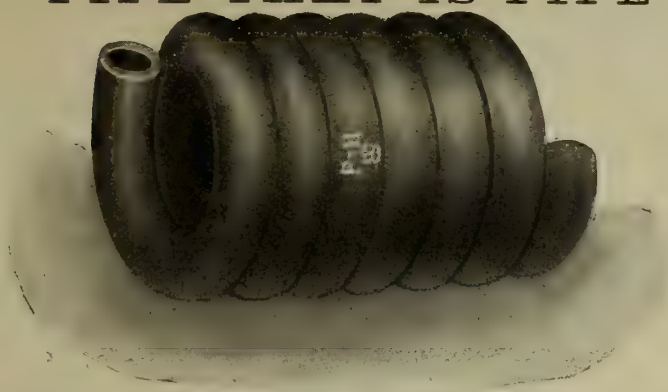
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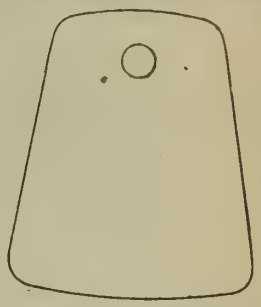
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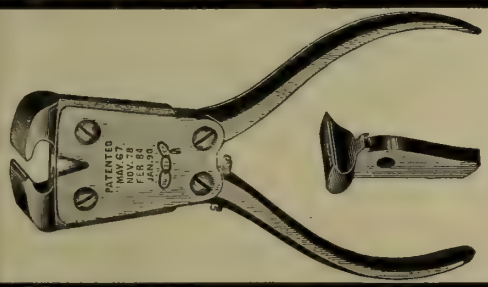
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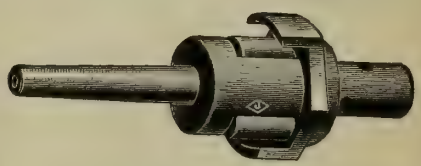
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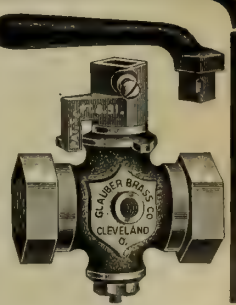
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if you don't secure all the business that is coming to you this year. You have the same opportunity that other Plumbers have of putting in a line of NATURO Water Closets and Seats. These have proved very profitable to others, and why not to you? There is nothing difficult about introducing them among your customers. Put a few in your show room and they will almost sell themselves. It requires just the slighest push on your part—just a little explanation. In a few words you can point out how much more sanitary, more convenient and more "natural" they are. They fill a long felt need in schools and public buildings and here is where you have an excellent chance to secure contracts.

We are ready to render you all the assistance you may require in pushing these.

OUR NATURO BOOK WILL HELP YOU

The NATURO Company
SALEM, N. J.

C. H. MUCKENHIRN, President.

tives for the Province of Ontario. Samples can be seen at Cluff & Co.'s warehouse at 52 Lombard street, Toronto.

The company manufactures the United Fuller Work Bibbs and Basin Cocks, a line that is creating a furore among the trade, and so great has been the demand that the above arrangements were necessary in order to handle the business. The construction of their line is entirely different to any others on the market, and as they are absolutely non-hammering and non-rattling, as well as being of the best material, workmanship and design, they are guaranteed to give perfect satisfaction.

SOAP IN PUBLIC LAVATORIES.

A demand for small "one-wash" soap tablets, or wafers, should be created by an agitation which has been started in the United States against the successive use of the same piece of soap by many persons in public lavatories. It is alleged that the present system is most unsanitary, and is often the cause of the spread of infectious diseases. In two states bills are pending in the Legislatures seeking to make it a misdemeanor to expose toilet soap in public toilets, where it may be handled by different persons. The remedy suggested is the use of small cakes of soap in sealed envelopes, or soap powder in sifters, as is done in many large hotels and office buildings and on railways.

BRITISH METAL TRADE IN 1904.

THE British iron and steel trade for 1904 is considered statistically in an annual circular issued by William Fallows & Co., in which they say: "The year 1904 was another unsatisfactory period for the iron and steel trade. It is almost unnecessary to point out how important is the controlling influence now exercised by America on the iron and steel trade of the world, considering that her present production is now more than double that of this country, and about one-half of that of the whole world. The future of the trade, both in America and Europe, will depend on whether or not this enormous make of pig iron can be absorbed. If it can, prices are pretty sure to advance; if not, we may see the same reaction as occurred in 1903. The influence of the movements in the American trade upon ourselves has been very marked in the past, as during periods of expansion, orders have always come to this country and Germany for large supplies of pig and scrap iron. This has generally led to a smart advance in prices, but now, with the enormous possibilities of production in the United States, she will, in all probability, be independent o these supplies in future years, and this may make a great difference to this country. The following are the exports of pig iron to the United States during the last six years' 1904, 56,111 tons; the last six years: 1904, 58,111 tons; 1901, 44,282 tons; 1900, 45,002 tons; 1899, 35,744 tons. The same remarks apply to Germany, and it will be seen our exports steadily decreased since 1899, as during that period their home production had grown from 8,029,305 tons to about 10,000,000 tons. The exports from this country to Germany (direct and through Holland) were as follows: 1904, 229,603 tons; 1903, 220,544 tons; 1902, 175,400 tons; 1901, 321,686 tons; 1900, 791,646 tons; and 1899, 703,675 tons. As all periods of high prices in this country have been associated with large shipments of pig iron, it will be well to bear these facts in mind.

The volume of production in the United Kingdom was comparatively stationary during the last few years. This was due in some measure to the falling away in our exports of pig iron, as also to the large imports of foreign iron and steel. To make these facts more clear, we give the following table of general statistics:

	Tons (estimated) 1904.	Tons 1903.
Production of pig iron	8,400,000	8,811,204
Imports of pig iron	130,407	130,280
Exports of pig iron	813,590	1,065,473
Pig iron retained for home use	7,636,410	7,464 807
Imports of manufactured iron and steel, less re-exported	1,114,510	1,107,047
Exports of manufactured iron and steel	2,452,658	2 499,128

To understand the foregoing table aright, it is necessary to add to the quantity of pig iron retained for home use the imports of manufactured iron and steel, as these re-appear again in the exports of manufactured iron and steel. When this is done, it will be seen that our total exports increased between the years 1901-1903, as also did the total volume of our home trade. We give the following table to make this more manifest:

Pig iron left for home use and imports of manufactured iron and steel	1904. Tons. 8,750,920	1903. Tons 8,501,854
Exports of manufactured iron and steel	2,452,658	2,499,128
Left for home consumption	6,298,262	6,002,726

This table may be useful as showing how satisfactorily the home trade was maintained during the years of depression by the help of cheap imported materials. The total production of pig iron in the United Kingdom was as nearly as possible the same as in 1903, and is estimated at 8,400,000 tons.

Remember that this is the time for fixing up the old furnaces and installing new ones. Do not wait until cold weather comes again before working on this end of the business.

Oil stoves are in demand. People that are afraid of gasoline stoves—there are still a few of them—are not afraid of the oil stove, and many are taking these to use during the hot weather as a substitute for the range or cook. Is your line full?

Specialties for the Paint Trade

¶ During rush and hurry time in Paint and Varnish trade, you have many enquiries for this and that and the other thing.

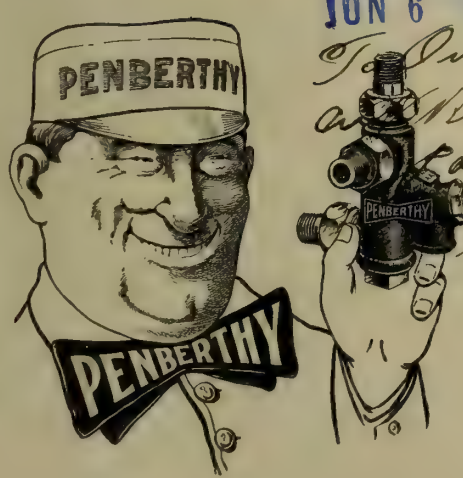
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My troubles are over at last! Tie to a genuine Penberthy Injector and you can never go wrong.

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The Hardware Dealer who sells Fairbanks Valves captures the Engineer's friendship and is building up a profitable valve business, which brings along with it many kindred lines. Are you one of these Dealers?

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Montreal. Toronto. Vancouver. Winnipeg.

Plumbing Markets

QUEBEC.

Office of HARDWARE AND METAL,
232 McGill Street,
Montreal, June 2, 1905.

NO new conditions different to those prevalent on this market some two weeks ago have originated during the past few days. Orders are arriving in large numbers, the majority of which call for a general line of goods, or, in other words, everything that is needed to complete an entire job. The demand is general, every part of the country contributing to it. The installation of numerous waterwork systems in small towns will in time mean a big increase in the annual amount of plumbing accomplished. It is therefore expected that trade will be brisk until the close of this present season.

Range Boilers—We quote as follows: Iron clad, 30 gallon, $6, and 40 gallon, $7.50 net; copper, 30 gallon, $22; 35 gallon, $24; 40 gallon, $28. The discount on copper boilers is 15 per cent.

Lead Pipe—Lead pipe has a good demand from the part of the [illegible] where the better class of work is being installed. Prices are firm and continue unchanged. Our quotations are as follows: Discount 30 and 5 per cent. f.o.b. Montreal, Toronto, St. John, N.B., and Halifax; f.o.b. London, 15c. per hundred lbs. extra.; f.o.b. Hamilton, 10c. per hundred lbs. extra.

Iron Pipe Fittings—No change has occurred on this market. Discounts on all sizes of nipples up to six inch 67 1-2 to 70 per cent.

Iron Pipe—The demand for iron pipe still continues. Some local supply houses are fortunate enough in being able to fill the orders received from their customers on time, but the larger majority of supply houses are unable to do so on account of the inabilty on the part of the manufacturer to keep them supplied. Prices are firm but no change has occurred. Our quotations are: Standard pipe, in lots of 100 feet, regular lengths, 1-4 inch, $5.50; 3-8 inch, $5.50; 1-2 inch, $8.50; 3-4 inch, $11.50; 1 inch, $16.50; 1 1-4 inches, $22.50; 1 1-2 inches, $27.00; 2 inches, $36.00; discounts on black pipe, 1-4 inch, 62 1-2 per cent.; 3-8 inch, 62 1-2 per cent.; 1-2 inch, 72 1-2 per cent.; 3-4 inch, and upwards, 74 1-2 per cent. Discounts on galvanized pipe: 1-4 inch, 47 per cent.; 3-8 inch, 47 per cent.; 1-2 inch, 62 per cent.; 3-4 inch and upwards, 64 per cent. Extra heavy pipe of 100 feet lots are quoted as follows: 1-2 inch, $12.00; 3-4 inch, $15.00; 1 inch, $22.00; 1 1-4 inches, $30,00; 1 1-2 inches, $36.00; 2 inches, $50.00. The discount for black pipe is: 72 1-2 per cent., and for galvanised, 61 per cent.

Soil Pipe and Fittings—There continues to be a good demand on this market. Trade is active, prices are firm, and taking all in all the prospects are for a good trade. We quote as follows: Standard soil pipe, 50 per cent. off list. Standard fittings, 50 and 10 per cent. off list. Medium and extra heavy soil pipe 60 per cent. off. Fittings 60 per cent. off.

ONTARIO.

Office of HARDWARE AND METAL,
10 Front street east.
Toronto, June 2, 1905.

SUPPLY houses report business as very brisk, sales continuing to be made of all lines in large quantities to both city and country buyers. Indications are that if building continues all Summer at the brisk rate it is now proceeding, shortages in some lines may result, although so far manufacturers have been able to ship goods with little delay. The general activity has

RETURNED
5 OCT 9 NOT
To Montreal
Page 36
Page 8



H. H. Henshaw, Montreal.
General Manager of Allis-Chalmers-Bullock, Limited.

resulted in firm prices, the market being very steady, and no changes being reported.

Lead Pipe—A steady demand continues, sales being very large. Quotations continue as follows: Lead, 7c.; lead waste pipe, 8c.; discount, 30 and 5 per cent.

Soil Pipe and Fittings—A good business is being done, prices being very firm. We quote: Medium and extra heavy pipe and fittings, 60 per cent.; 7 and 8 inch pipe, 40 and 5 per cent.

Iron Pipe Fittings—The volume of goods moving is large, buying being active at unchanged prices. Our quotations are as follows: Malleable fittings 20 to 25 per cent. for American and 35 per cent. for Canadian; cast iron (standard), bushings, 65 per cent.; headers, 60 per cent.: flanged, unions, 60 per cent.; lipped unions, 60 and 5 per cent.; malleable bushings, 60 per cent.; nipples up to 6 inch inclusive, 75 per cent.

Copper Range Boilers—Trade is reported to be very satisfactory. Prices are steady. The discount of 15 per cent. continues.

Galvanized Iron Range Boilers—Demand continues active, large sales being made and quotations continuing unchanged as follows: 12 gallon capacity, standard, $4.50; extra heavy, $6.50; 18 gallon, standard, $4.75; extra heavy, $6.75; 24 gallons, standard, $4.75; extra heavy, $6.75; 30 gallon, standard, $5; extra heavy, $7.50; 35 gallons, standard, $6; extra heavy $8.50; 40 gallons, standard, $7; extra heavy, $9.50; 52 gallons, standard, $11; extra heavy, $14; 66 gallons, standard, $18; extra heavy, $20; 82 gallons, standard, $21; extra heavy, $24; 100 gallons, standard, $29; extra heavy, $34; 120 gallons, standard, $34; extra heavy, $40; 144 gallons, standard, $47; extra heavy, $55.

Iron Pipe—Buying continues active with much business doing. We still quote: Black, 1-4 inch, $2.03; 3-8 inch, $2.06; 1-2 inch, $2.29; 3-4 inch, $2.87; 1 inch, $4.12; 1 1-4 inch, $5.62; 1 1-2 inch, $6.75; 2 inch, $9. Galvanized, 1-4 inch, $2.86; 3-8 inch, $2.89; 1-2 inch, $3.14; 3-4 inch, $4.02; 1 inch, $5.77; 1 1-4 inch, $7.87; 1 1-2 inch, $9.45; 2 inch, $12.60.

Solder—Prices continue unchanged the demand for goods being steady. Bar solder, half and half, guaranteed, is quoted at 19c.: wiping solder at 17 3-4c., and refined 18c.

Enameled Ware—An active demand continues, business being as satisfactory as desired. Our quotations are as follows: Baths, rolled rim, 5 feet, 2 1-2 inch rim, 1st quality, $17.50, special, $15.50; 3 inch rim, 1st quality, $19.00, special, $17.00; 5 1-2 feet, 2 1-2 inch rim, 1st quality, $19.00, special, $15.50; 3 inch rim, 1st quality, $20.50, special, $18.50. Lavatories, discounts 30 to 40 and 5 per cent. Sinks, 18 x 30 inch, flat rim, 1st quality, $2.45; special, $2.

NEW GENERAL MANAGER.

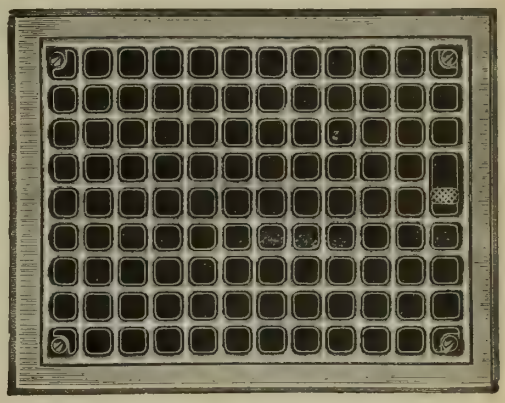
Mr. H. H. Henshaw, who has been secretary-treasurer of the Montreal Light, Heat and Power Co., of Montreal, since the year 1886, has been appointed to the directorate and general managership of the Allis-Chalmers-Bullock, Limited, of the same city. Mr. Henshaw spent his early childhood in St. Hyacinthe, Quebec, and afterwards came to Montreal, where he entered the service of the Grand Trunk Railway. He, later, became secretary of the Royal Electric Co., but when it was amalgamated with the Montreal Light, Heat and Power Co., he became secretary-treasurer of the new organization. Mr. Henshaw will commence with his new duties about June 1.

Wrought Steel Registers

Will not Break or Warp,
Large Air Space,
More Strength,
Less Weight.

For Sale by Leading Jobbers.

HART & COOLEY COMPANY
NEW BRITAIN, CONN., U. S. A.



FERROSTEEL REGISTERS

WE MAKE ALL LINES

All Cast
Modified Steel
All Steel

Quality everlastingly the best
Prices everlastingly the bottom

OUR
ALL CAST Are time tried and worth proven.
MODIFIED STEEL The novelty success of 1904.
ALL STEEL Almost ready and a sure winner.

THE FERROSTEEL CO., 34 Michigan St., CLEVELAND, OHIO



A No. 12 JONES REGISTER
For second floor room. Bottom Collar fits 3¼x12 or No. 8 Wall Pipe.



A No. 15 JONES REGISTER
For first floor rooms. Bottom Collar, 7x14. These Registers are fitted with a Top Collar which fits 3¼x12 Wall Pipe or a plate when used for heating one room on the first floor.

ADVANCED METHODS OF WARM AIR HEATING

Is the title of our latest catalogue which illustrates and describes the

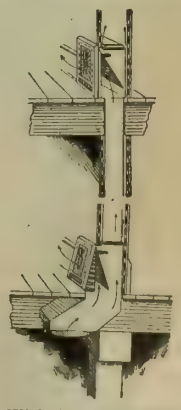
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These Registers have been on the market since 1901 and are used by between five and six thousand of the best furnace dealers in Canada and the United States.

By the use of Jones Registers the efficiency of the furnace is **increased**; at the same time, the cost of installing furnace is **reduced**

BE UP-TO-DATE AND USE THE BEST

There is included with each Jones Register, the register which is also a border, a double register box, a ventilator and a deflector. Wall pipes are two feet shorter and but one-half the number of basement pipes ordinarily used are necessary.



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HOME OFFICE

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Burchard St. & D.T. & M.R.R., BATTLE CREEK, MICH.

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MANUFACTURER'S AGENTS.

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Save money by consigning your importations direct to destination and pay through freight charges only. Have your goods cleared and distributed by

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Customs Brokers, Forwarding and Distributing Agents
Vancouver, B. C. Satisfactory service given.

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Manufacturers' Agent and Metal Broker,
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Representing British and American Manufacturers. Correspondence invited from firms wishing to be represented in Canada.

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North West Machinery & Iron Co.

LIMITED

WINNIPEG, Canada

The only exclusively Blacksmith Supply and General Machinery House in the Great Canadian Northwest.

BUSINESS CHANCES.

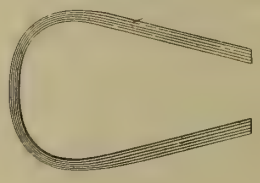
IF you wish to buy or sell a business anywhere in Western Canada, it will pay you to communicate with us. We have some good legitimate propositions on our list; handle nothing else. Address The Business Brokers, 611 McIntyre Block, Winnipeg, Man. (tf)

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Sarnia, Ontario

We are prepared to fill any orders for

HEAVY WAGON, SLEIGH, BUGGY, AND CUTTER STOCK

We make a specialty of heavy stock and can fill orders promptly. Made from the best of oak and hickory as we carry a large stock of lumber and can make any sizes that may be required. We make it a point to fill orders promptly.

If you are in need of anything in our line we will be pleased to hear from you and we will give it our prompt attention.

J. S. LOUGHEAD & SON, Sarnia, Ont.

Bolton, Fane & Co.

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In all qualities and sizes

Bessemer Coke	"Lofoden" Brand
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Boiler Plates, Rails, Fishplates, &c., &c.

R. SULLIVAN DAVID

Selling Agent for Canada, 210 St. James St., MONTREAL
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TO MANUFACTURERS' AGENTS:

HARDWARE AND METAL has enquiries from time to time from manufacturers and others wanting representatives in the leading business centres here and abroad.

Firms or individuals open for agencies in Canada or abroad may have their names and addresses placed on a special list kept for the information of enquirers in our various offices throughout Canada and in Great Britain without charge.

Address

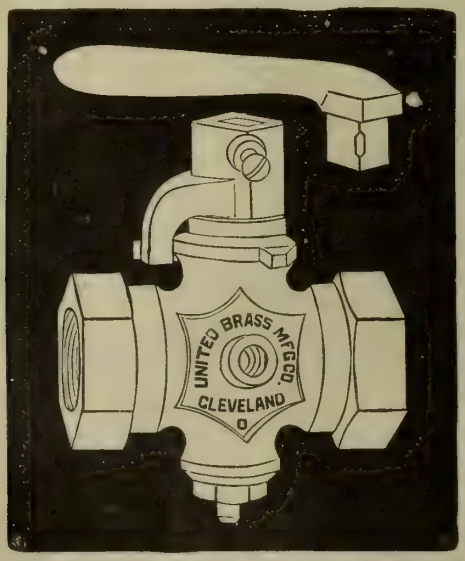
Business Manager

HARDWARE AND METAL

Montreal and Toronto.

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Are Installed by LEADING PLUMBERS everywhere because THEY ARE THE BEST.



We Manufacture a Complete Line of High Grade

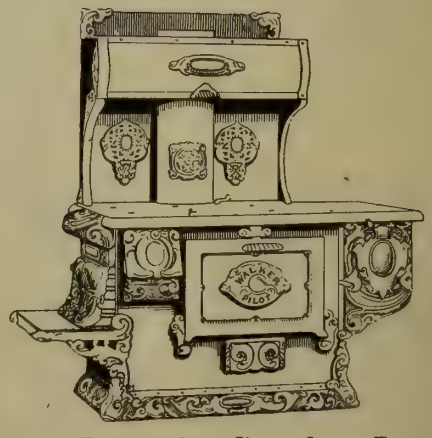
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United Brass Manufacturing Co.

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THE Walker Pilot Steel Range



Now is the time to place a sample Walker "Pilot" on your floor. It is the only thoroughly modern Steel Range in Canada. It pays bigger profits than any other Range, and gives the entire satisfaction that only a perfectly made article can. Write for particulars.

THE WALKER STEEL RANGE CO., LIMITED

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SHEET BRASS AND COLD ROLLED COPPER

We are now fully equipped and can fill all orders for these metals.
Send us specifications of your requirements. Write for our Discount Sheet.

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Opalite
Royal Oak
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Sanderson-Harold Refrigerators

are unequalled for
General Appearance, Style
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If you want the best you must
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Write for Catalogue. It will pay you.

SANDERSON-HAROLD CO., Limited
Manufacturers of
Refrigerators, Screen Doors and Windows
PARIS - - ONTARIO

The New Section Joint.

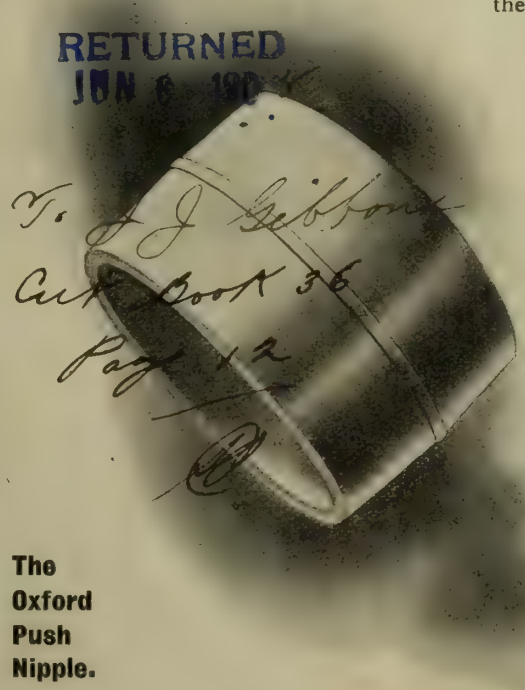
Leaking joints cause more bother and expense in a boiler than anything else.

Leaking joints are the natural outcome of the old style of boiler construction.

The old style joint was two smooth surfaces squeezed together on a sheet of rubber. This rubber in a short time became dried out losing its elasticity and consequent expansion, leaving a leaky joint. A repair meant taking the boiler to pieces.

Nothing but iron and steel enters into the construction of the Oxford Hot Water Boiler—no rubber or composition washers are used.

The joints in the Oxford Boiler are made with smooth, tapered steel nipples pressed into smooth, tapered holes, making an absolutely indestructible joint. Small boilers are shipped with all the sections built together so that the steamfitter has only one joint to make, saving much time in the erection of a heater.



The Oxford Push Nipple.

This is only one of the many exclusive advantages found in the Oxford Boiler. We would like to tell you the rest of them. Our illustrated catalogue, "The Gurney Oxford Book of Steam and Hot Water Heating Apparatus" tells the whole story. It's free. Write for it—a post card will do.

The Gurney Foundry Co., Limited

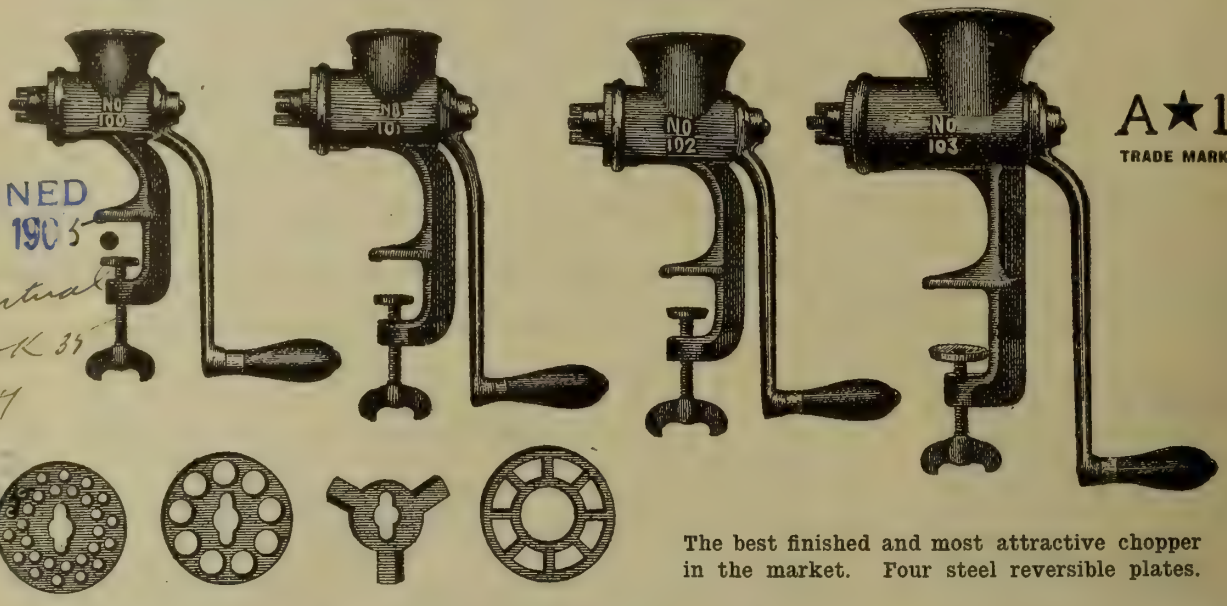
TORONTO WINNIPEG VANCOUVER

The Curney-Massey Co., Limited, Montreal.
The Curney Standard Metal Co., Limited, Calgary, Alta.

The A1 Tinned Food Choppers

IN 4 SIZES

No. 100 No. 101 No. 102 No. 103



A★1
TRADE MARK

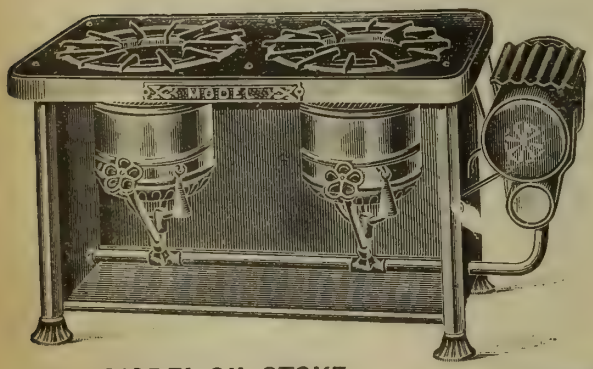
The best finished and most attractive chopper in the market. Four steel reversible plates.

F. W. LAMPLOUGH & CO., = Montreal

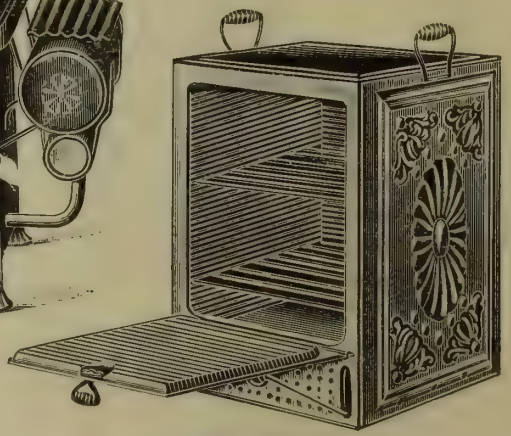
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Hot Weather Money-Making Specialties

These summer stoves are good sellers and quick money-makers.
If you have not received a catalogue, write for one.



MODEL OIL STOVE



MODEL OVEN



SUMMER QUEEN OIL STOVE

We can make prompt shipment of all kinds of summer cooking utensils and camping goods.

The McClary Manufacturing Co.

LONDON, TORONTO, MONTREAL, WINNIPEG, VANCOUVER, ST. JOHN, N.B. HAMILTON

"Everything for the Tinshop."

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President:
JOHN BAYNE MACLEAN,
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The MacLean Publishing Co.
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ADELAIDE, AUSTRALIA, - Steamships Building. W. H. Sharland, Jr.

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Great Britain and elsewhere - - 12s

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NEW ADVERTISEMENTS :

Pearce, Frank, & Co., Liverpool, Eng.
Algoma Steel Co., Sault Ste. Marie, Ont.
Great West Wire Fence Co., Winnipeg, Man.
Fabien, C. P., Montreal.
Walker Steel Range Co., Grimsby, Ont.
United Brass Mfg. Co., Cleveland, Ohio.
Hobbs Hardware Co., London, Ont.

MINISTER OF MINES.

ONTARIO'S new Minster of Lands and Mines, the Hon. Frank Cochrane, will need little introduction to the hardware trade, particularly in the wholesale centres and in New Ontario, the district which will come under his administrative powers most largely. Although he resides in Toronto, he has spent the greater part of his life in the northern districts as a hardware merchant and lumber dealer, and is, therefore, thoroughly aware of the conditions surrounding the mining and lumbering industries.

Readers of Hardware and Metal will remember the regrettable accident which befel Mr. Cochrane last February, when he slipped under a train and lost a limb by having it crushed by the car wheels, saving his life only by the catching of a brake rod and hanging on while his leg was being crushed. After being removed to a hospital and later to his home in Toronto, Mr. Cochrane recovered and is now well enough to return to Sudbury where he conducts a hardware store, and take part in the bye-election which follows his entry into the Cabinet and the retirement of Mr. Charles LaMarche, M.P.P., in order to provide a seat for Mr. Cochrane.

The changes in the Ontario Cabinet provide for Premier Whitney becoming President of the Council, and Hon. J. J. Foy retiring as Commissioner of Crown Lands to accept the Attorney-Generalship vacated by Premier Whitney.

The reconstructed Cabinet is now as follows: President of the Council and Premier, Hon. J. P. Whitney; Attorney-General, Hon. J. J. Foy; Provincial Secretary, Hon. W. J. Hanna; Provincial Treasurer, Hon. Colonel A. J. Matheson; Minister of Education, Hon. Dr. R. A. Pyne; Minister of Agriculture, Hon. Nelson Monteith; Minister of Lands and Mines, Hon. Frank Cochrane; Minister of Public Works, Hon. Dr. Reaume; Ministers without portfolio, Hon. Dr. Willoughby, Hon. Adam Beck and Hon. J. S. Hendrie.

IN THE COMMON INTEREST.

A FEW western retailers have been shy of the association movement because of a mistaken idea that a retailers' association is necessarily antagonistic to the wholesaler, and must meet with his opposition. Striking proof of the foolishness of this idea and of the active sympathy of the intelligent wholesale firm with the success of the new association has been afforded by the action of a number of Winnipeg wholesalers. As an evidence of their sympathy and support they are enclosing in all their letters to the retail trade a printed slip calling the attention of their customers to the Retail Merchants' Association of Western Canada, and asking if they have joined. This should set at rest forever all doubts as to the attitude of the wholesale interests.

And, indeed, it would be a strange thing if the wholesalers were to oppose a movement which has for its object only the maintenance of sane business methods. It would be strange if they were to oppose an organization which seeks to shorten credits, and thus facilitate collections. It would be strange if they were to oppose any legitimate movement to eliminate cut-throat competition among retailers, for they are interested in seeing their customers make a profit. It would be strange if they had not sufficient foresight to see that the future interests of all branches of the trade will be best served by a hearty co-operation. The retail association is in the common interest.

A COMMERCIAL RELIEF.

A CONDITION of suspense is not good for the human body, and it is quite as injurious for the commercial body. For some weeks uncertainty has hovered about the movements of the Japanese and Russian fleets in the Far East. Conflicting rumors, speculations and conjectures have all tended to excite the mind, and both hemispheres have been breathlessly awaiting the result of the inevitable encounter.

The result has been received with an undoubted sense of relief, for, while many people have admired the bravery and daring of the Russian admiral, the Japanese victory has brought peace within a measurable distance. Had the Russians succeeded in destroying the Japanese navy, thereby cutting the Japs' line of communications, it is impossible to realize what horrors of war must have resulted. Other nations would certainly have become involved.

From a commercial standpoint, the result must be hailed with relief. During the fifteen months that the war has dragged on Japan has borrowed $260,000,000 on the British and American market and Russia has raised at Paris and Berlin something like $200,000,000. When sums of this magnitude have to be provided on short notice for the destructive purposes of war, it will usually enterprises must postpone their plans because not enough ready capital is left to advance to them.

COMPETITION IN SHOVELS.

REFERENCE was made some time ago to the establishment of the Peterboro Shovel and Tool Co., who were building a factory to be 69x180 feet. Enlargements have now been decided upon to add 100 feet to the structure and the new factory, 69x280 feet, is expected to be in operation by the middle of June, making a full line of shovels.

Another company has now entered the field, this week's list of incorporations including the Canadian Shovel and Tool Company, Limited, Hamilton, capitalized at $150,000 and backed by New York and Pennsylvania men. The new factory will probably be running by Fall and plenty of competition is likely to result.

MYERS HAY TOOLS.

The Hobbs' Hardware Co., of London have been appointed Canadian agents for the Myers Mfg. Co., of Ashland, Ohio, who manufacture Myers' hay tools. Attention is drawn to these lines, they being illustrated in an advertisement on another page.

TAX ON FOREIGN TRAVELERS

HON. J. C. McCORKILL'S Act relating to the tax upon manufacturers' agents, brokers, and representatives of foreign firms doing business in the Province of Quebec, which was passed in the closing hours of session prorogued on Saturday, May 20, has caused no end of discussion and interest among the trade of Montreal. The imposition of the tax was viewed with particular alarm by the brokers and manufacturers' agents, and if the Act as it was first drawn and its provisions published, had been put into effect, the results would have been dire. In its amended state, and as it is explained by the provincial treasurer, it is more complacently accepted by the interests directly involved. The first reading imposed a tax of $300 upon all agencies and firms represented by the broker or agent. This naturally meant that where an agent represented say five agencies, it would impose a tax of $1,500 per annum; a figure which would practically kill the brokerage business in Montreal and the Province of Quebec. Protests were naturally sent in to the provincial treasurer by some of the leading brokers of Montreal, and the board of trade strongly protested against the imposition of such an unreasonable and unwarrantable tax upon an important branch of commerce. The provincial treasurer in replying to the board of trade's protest stated that: "It never was intended to place a tax upon resident manufacturers' agents, etc. It was by inadvertence that the law officer left out the word 'non-resident.' The law applies to non-resident commercial travelers representing foreign firms, who come to Canada, take orders for goods, and return home."

This explanation was somewhat more satisfactory, but still leaves the matter open to serious misconstruction and possible trouble. The provincial treasurer states that "the law only applies to non-resident commercial travelers representing foreign firms," etc. What is meant by "non-resident" is not quite clear. A traveler or agent whose office is in Toronto, Hamilton, or other western or eastern city, might be classed as a "non-resident" of the Province of Quebec, and consequently liable to the tax. With the view of securing the opinion of the trade interested, Hardware and Metal interviewed some of the leading brokers, the opinions crystallized being practically the same, that the tax is unjust, the principle wrong, a hardship to the brokerage business, and practically a restraint of trade.

Mr. Arthur J. Owen, who represents the Franklin, Saunders Co., in Montreal, dealers in tinplates; when called upon by the representative of Hardware and Metal, expressed considerable indignation at the recent action by the Quebec Legislature. "Three hundred dollars as a license in a province such as this, where, you may say, there are only two cities in which a traveler can book a decent order, is too much. If the treasury is depleted and the 'party' wishes to secure some money with which to work upon, why not start an 'income tax' similar to that which is now in force in England? I am in favor of open competition. Let every man come in free of charge and book as many orders as he can. Such taxes as those which are now in force in Nova Scotia, Prince Edward Island and British Columbia are simply detrimental to the trade. A large number of small firms manufacturing in England will in the future have to withdraw themselves from this market."

Mr. Godfrey S. Pelton, Montreal, is another manufacturers' agent who is antagonistic to the tax, believing it will result in business being carried on on an unequal footing. "Take, for instance, a number of wholesale firms carrying on business in this city. We will say that one firm has been in the habit of sending a representative to the head office in England, once a year, or possibly more frequently. Owing to the intimacy existing between this English manufacturing firm and the Canadian wholesale firm, on account of these numerous visits, the latter can purchase his stock at a better figure than some of his competitors who cannot afford to send a representative to England, and as a result of this he can afford to sell to the retail trade of Canada at a lower figure. This is an unfair method of carrying on business. Furthermore, this Act will result in many new agencies being opened, as it costs the manufacturer a much larger sum of money to open or give an agency than to send a traveler."

Mr. Crowdy, manager of the James Hutton Co., of Montreal, agents for a number of English manufacturers, thinks that commercial travelers should be taxed. When questioned as to the probable results of the Act, Mr. Crowdy said that he thought that a number of these English firms who are now carrying on business in this dominion by means of a traveling representative, would henceforth skip the Province of Quebec. He based his opinion upon the fact that a large number of travelers representing foreign firms secure but small orders in this province, owing, no doubt, to the limited number of business cities or towns in the province.

Mr. J. N. Warminton, manufacturers' agent, Montreal, thinks the amount of the license is too high. The duties on foreign goods alone should be enough to hamper trade in this country, without imposing such an enormous tax on representatives who come here trying to sell the goods. The Government will have a difficult task in trying to enforce the Act. It will debar a large number of new manufacturing firms in United States and Europe, as in the majority of cases a new firm is not in a position to pay such heavy license fees. When asked as to the probable result of the Act, Mr. Warminton said that he thought a number of foreign firms who have worked up a small business in this province would withdraw from the market, as the amount of business transacted would not warrant paying such a sum for a license.

Mr. W. H. Dunn, Montreal, said: "If the law is intended to apply to firms I represent it would be an injustice, but that is clearly not the case. If it were, as I represent some twenty different firms, I would be compelled to drop some of them, as the tax of $300 could not be borne by many of them according to the volume of business as yet obtained. I do not believe in taxing trade between our own provinces, as is being done by some of them now. It is not carrying out the idea of confederation, and certainly not in keeping with modern commercial principles. It will be found that the Act does not apply to local or provincial agents, but is aimed against foreign firms who now come or send their travelers here and do business direct. In a measure it will tend to increase the number of agencies in this city, as those American or other foreign firms who now visit Canada, and particularly this province, will be obliged, if they value their business here, to appoint local agents, and so do away with the paying of the tax."

Mr. S. W. Ewing, Montreal was decidedly against the idea of taxing local representatives of foreign firms, though some features of the Act might prove a benefit. "It would," Mr. Ewing stated, "have the effect of keeping out some undesirable competition from the other side. Take the case of a glut in the market to the south of us, with prices abnormally below market value, American travelers visit this market with their panicky prices, take orders, and return home after upsetting normal and logical conditions of our markets here. If they desire, after the passage of this Act, to unload on the market, they would have to do so through local brokers and agents, or by correspondence."

Mr. H. W. Wadsworth, of Montreal, secretary of the Dominion Travelers' Association, was of the opinion that it was a good thing for our Canadian agents representing foreign houses. "If these foreign agents cannot afford to pay the tax they will be forced to hire a representative here, and in this way our own travelers and agents will get the business. Restrictions of trade between the provinces of the Dominion is not desirable, and is a principle of taxation not within the spirit of the Act of Confederation."

STRONG
SIMPLE
NEAT

Fig. 996 illustrates the **Myers Hay Unloader** as it would appear in leaving the knocker with a swinging load. The fork pulley, having round top, can swing at any angle, thus relieving it from strain and liability to breakage. Combination, reversible and swivel, for wood track. It has seven-eighth inch turned steel axles.

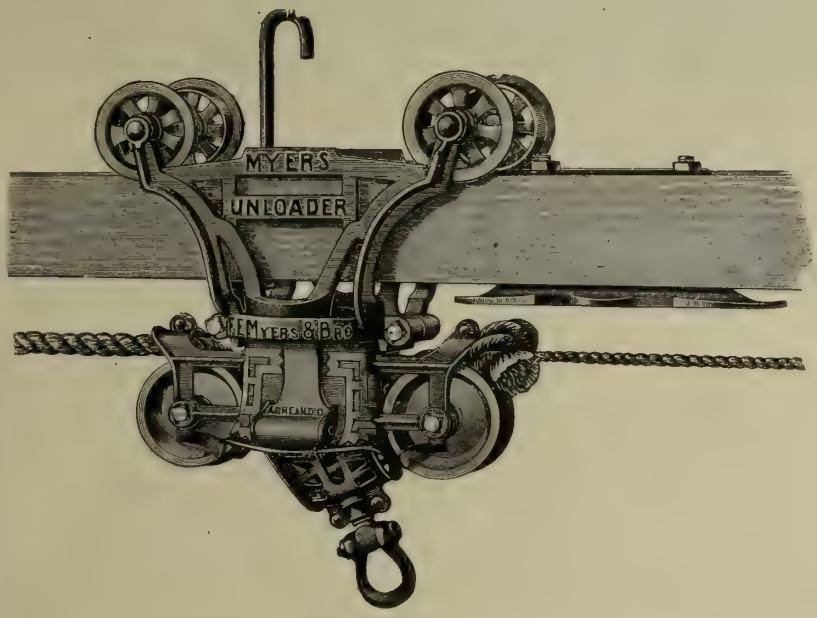


Fig. 996

CHEAP
MODERN
DURABLE

In Unloaders we also stock Nos. 982, 984, 996, 1014, 1131 and 1132.

Prices and description on request.

MYERS' HAY TOOLS

Fig. 670 illustrates the **Myers Lock Lever Harpoon Hay Fork.** This fork is 19 inches wide, is made of spring steel ; sets with one lever and locks open. While it is not larger than the regular double harpoon (except in width), it has 50 per cent. more capacity, owing to the cross-bar being placed nearer the top ; and it gathers the grain or hay from the **end of point,** not two inches from bottom, as all old-style forks do. We also stock No. 268.

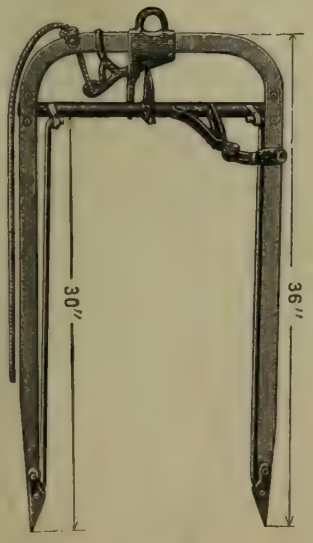


Fig. 670

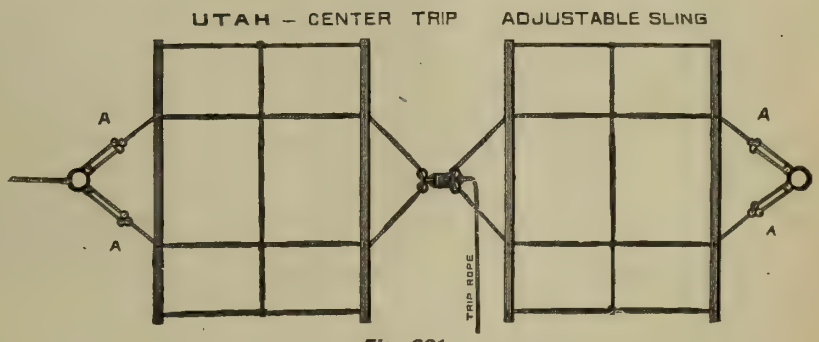


Fig. 621

Fig. 621 illustrates the **Utah Center Trip Adjustable Sling,** which has all the advantages of the Myers Center Trip Adjustable Sling, with the following changes : Instead of a three-foot cross-bar, the Utah has a six-foot, which extends beyond the side-ropes eighteen inches on either side, to which is attached an additional rope, and also a cross-rope attached to each of the main ropes, as shown in the cut. This sling really forms a net, and is designed to carry fine stuff. We also stock No. 620.

ALSO

FLOOR HOOKS, RAFTER BRACKETS, HAY FORK PULLEYS, WOOD TRACK HANGING HOOKS, ETC.

The Hobbs Hardware Co., LIMITED

London, Ont.

Canadian Sales Agents for F. E. MYERS & BRO., Ashland, Ohio

MARKETS AND MARKET NOTES

(For detailed prices see Current Market Quotations, page 58.)

Quebec Hardware Markets.

Office of HARDWARE AND METAL,
232 McGill Street.
Montreal, June 2, 1905.

INSTEAD of the trade assuming a steady and quiet aspect, as in former years, it has again become very active, and the amount of orders received last week proved that conditions of the trade this year are greatly different to those of last Summer and previous years. Harvest tools and other articles needed during the harvest season, such as binder twine, machine tools, etc., have a good demand. Barb wire continues to be in good demand, especially in the newer parts of the Dominion, and as the demand is of large proportions, manufacturers find it very difficult to supply the wholesale houses with stock so that they may be in a condition to ship orders on time. All articles in connection with the building trade have a good sale. In fact, so firm are the prices of wire nails, building paper, carpenters' tools and kindred lines that it is feared that an advance may take place. Poultry netting continues to be scarce, and many wholesale houses report great difficulty in securing the finer meshes. This scarcity is caused by a recent fire in the only Canadian plant and a heavy demand on the English market. Shipments are expected to leave the English market in a few days for Canada, and this may help to relieve the present strained conditions. The outlook of the market is bright, and it is expected that the present good demand will continue for some time.

Axes—Trade in axes still has a tendency to be quiet. Possibly it is yet early in the season for these orders to accumulate, and something of a better nature is expected to be experienced at a later date. We quote the following: Chopping axes, unhandled, $6 to $9.50 a dozen; double bitt axes, $9.50 to $12 a dozen; handled axes, $7.50 to $9.50; Canadian pattern axes, $7.50 a dozen.

Handles—The demand has been increasing during the past week, until now it has reached a fair position. Prices are firm, but no change is expected to take place. Our quotations are as follows: Axe handles, No. 3, $1.25; No. 2, $1.50; No. 1, $1.90 a dozen; adze handles, 34 inch, $2.20 a dozen; pick handles, No. 2, $1.70; No. 3, $1.50 a dozen.

Sewing Machines—As the season is now well advanced, the sale of sewing machines has decreased to a considerable extent during the past few weeks, until now the trade has assumed its regular quiet appearance of some few months ago. We quote as follows: Hand sewing machines, $11 each net; complete machines with stand, $18 and up, according to quality.

Lanterns—The demand for lanterns still continues to be very quiet. Reports have been received to the effect that the majority of retail merchants purchased very heavily while the prices were declining. If this be the case, it is expected that trade will remain quiet, as some time will elapse before the present stocks are disposed of. Prices are steady. Our quotaions are: Cold Blast, $4.50: No. 0 Safety, $3.50.

Barb Wire—Local wholesale houses report that manufacturers of barb wire are behind in their shipments. It is expected that, owing to the heavy increase in the demand, they find it difficult to keep apace with it. Prices are firm and remain unchanged. We quote: $2.75 for 100 lbs. f.o.b. Montreal: $2.37 1-2 f.o.b Cleveland. Carlots of 15 tons, $2.25 f.o.b. Cleveland.

Fence Staples—Orders are being filled by the wholesale houses and shipped forward promptly on time. The demand continues to be strong. A large majority of the orders are being shipped to the west. We quote the following: $2.65 per 100 lbs. keg, for bright, and $3 for galvanized; 25 to 50-lb. packages 25c. extra.

Rivets and Burrs — Trade on this market has assumed a steadier gait, and it is supposed that the merchants have concluded purchasing for the Summer trade. Present conditions are expected to continue unchanged until the Fall orders begin to arrive. We quote the following: Best iron rivets, section, carriage and wagon box, black rivets tinned do., copper rivets and tin swede rivets, 60, 10 and 10 per cent.; swede iron burrs are quoted at 60 and 10 and 10 per cent. off new lists; copper rivets with the usual proportion of burrs, 45 per cent. off; and coppered iron rivets and burrs in 5 lb. carton boxes at 60 and 10 and 10 per cent.; copper burrs alone. 30 and 10 per cent., subject to usual charge for half-pound boxes.

Screws—A good demand still continues to be prevalent on this market. Prices are firm and continue unchanged. Our quotations are : Round head, bright, 82 1-2 per cent.: flat head, bright, 87 1-2 per cent.: brass, round head, 75 per cent.: brass, flat head, 80 per cent.

Bolts and Nuts—Large orders still continue to be received from the machine shops of this country. Numerous orders have also been received from the hardware merchants residing in the northern part of Quebec and Ontario. Prices are steady, and at present there is no indication of a change.

Wire Nails—Orders which should have been shipped one month ago are just being forwarded. This state of conditions shows that the manufacturers are behind to a considerable extent in supplying the trade. Repeated rumors have been received stating that prices are to advance, but as yet nothing definite has occurred. Prices are very firm, and an advance would not surprise the trade. We quote the following: $2.25 a keg f.o.b. Montreal.

Cut Nails—Trade on this market remains the same, only a fair demand being in existence. Prices at present are inclined to be easier. but no change is indicated. Our quotations are: $2.20 a keg f.o.b. Montreal.

Horseshoes—With the exception of a fair demand, trade continues featureless. Prices continue unchanged. We quote as follows: P.B. New Pattern, base price, $3.50 per 100 lbs.; M.R.M. Company latest improved pattern iron shoes, light and medium pattern, No. 2 and larger $3.65, No. 1 and smaller $3.90, snow pattern, No. 2 and larger $3.90, No. 1 and smaller $4.15. Light steel shoes, No. 2 and larger, $3.90, No. 1 and smaller $4.15; featherweight, all sizes 0 to 4, $5.50; toe weight, all sizes 1 to 4, $6.75. Packing—Up to three sizes in a keg ten cents per hundred pounds. More than three sizes twenty-five cents.

Horse Nails—Like horseshoes, trade on tihs market has remained unchanged.

Sporting Goods—All lines such as fishing tackle, boats and boat furnishings, sporting and general outing accessories have a heavy demand. The good demand for ammunition continues unchanged. Firearms, as yet, are not in such demand, but it is expected when the season becomes more advanced, the demand will strengthen. We quote: Canadian-made shells, black, 25 and 5 per cent.; smokeless. 25, 10 and 5 per cent.; American centre-fire cartridges, list net; sporting and military, 10 per cent. advance on list; primers, $2.05 per thousand; American loaded shells, 20 per cent. discount; B. B. caps, $2 per thousand; C. B. caps, $2.60 per thousand; standard shot, $6.50 per hundred lbs.; chilled, $7 per hundred lbs.; buck and steel, $7.50 per hundred lbs.; ball, $8 per hundred lbs. We quote discounts 15 per cent. on shot f.o.b. Montreal, Toronto, Hamilton, London, St. John, and Halifax.

Building Paper—Large orders are going forward, and conditions at the present time are very active. Prices are

firm, but there is no tendency for an advance.

Cordage—Owing to the high price of pure Manilla, the price of pure and British binder twine have each advanced one half-cent per pound. Orders are beginning to arrive more freely, and it is expected that the fine trade will be in progress within a few days. This advance of last week places pure Manilla binder twine on a fifteen cent. basis, and British Manilla binder twine on eleven and a half cent. basis.

Cement and Firebrick—Fair amounts of English and Belgian cement and English and Scotch firebrick continue to arrive. Beyond these features the trade is steady, with a slight tendency to become quiet. This, it is expected, is only a momentary condition, and it is expected that a brisker trade will be in progress during the following few days. Our quotations are as follows: English cement, $1.80 to $1.90; Belgium, $1.60 to $1.90 per barrel; ex-store, American, $2.00 to $2.10 ex-cars; Canadian Portland, $1.90 to $2.00. Firebrick, English and Scotch $17 to $21, American $30 to $35.

Coil Chain—A good trade is in progress. Prices are firm and continue unchanged. We quote: 5-16 inch, $4.25; 3-8 inch, $3.75; 7-16 inch, $3.55; 1-2 inch, $3.35; 9.16 inch, $3 .30; 5-8 inch, $3.20; 3-4 inch, $3.05; 7-8 inch, $3; 1 inch, $2.95.

Green Wire Cloth—It is said that some sizes are difficult to obtain, and reports are being received to the effect that there is a scarcity. Prices are firm, but no change has as yet occurred. We quote: Per 100 square feet, $1.50.

Poultry Netting—Poultry netting of the finer mesh still continues to be scarce, and wholesale dealers are finding it difficult to fill orders. Indeed, some local houses have had to refuse orders. Word has been received that shipments are on the way from England. This may have a tendency to relieve the conditions of the market.

Spring Hinges—A good demand is prevalent on this market. Some large orders have been received during the past week and at present prospects have a very bright appearance. Our quotations are as follows: No. 5, $7.25 per gross; No. 10 $18 per gross; No. 20, $18.80 per gross; No. 120, $20 per gross; No. 51, $9.25; No. 50, $27.50.

Apple Parers—Although yet early in the season a few inquiries are being received. Trade has the prospects of being very brisk during this coming Summer. Our quotations are: Little Star, $4.85; Hudson, $5; Rocking Table, $5.25; Turn Table. $6; Canadian, $4.50.

The White Bear Mine at Rossland has shut down for a period of 90 days, and this is principally on account of a defective motor, which did not furnish sufficient power to keep the hoist, the machines, and the concentrating mill in operation. ...

Ontario Hardware Markets.

Office of HARDWARE AND METAL,
10 Front Street East.
Toronto, June 2, 1905.

SEVERAL changes are reported this week, none, however, of great importance, most lines remaining stationary, and those which have changed not moving very far. Manila rope has risen half a cent, and is likely to hold firm at the new quotation. Cement is now quoted at $1.75 in car loads, and will probably go higher. Firebrick has dropped about five cents all round on account of new importations. And corundum and emery wheels have been slightly advanced.

Nails are plentiful, and while manufacturers contend that prices are too low and should be advanced the fact that retailers are well stocked up and the supply is not short will cause prices to remain stationary but firm.

Jobbers report an excellent business doing, an improvement being noted as the first of the month drew near. Local merchants are restocking on many lines owing to heavy demands for goods, and many Summer lines are also being ordered in larger quantities.

Lawn Mowers—There is a particularly large demand for mowers and garden tools.

Sporting Goods—Summer sports goods are all selling well. Many re-orders of fishing tackle are being received. Tents and camping outfits are selling well, but little is doing in guns and ammunition.

Washing Machines—The demand continues strong, the warm weather causing an increasing sale.

Chain—Small sizes continue active. We quote: 1-4 inch, $6.50; 5-16 inch, $4.45; ⅜ inch, $3.85, 7-16 inch, $3.70; ½ inch, $3.55; 9-16 inch, $3.45; ⅝ inch, $3.35; ¾ inch, $3.25.

Step Ladders—Demand for goods this season is very satisfactory. We quote at 10c. per foot for 3 to 6 feet, and 11c. per foot for 7 to 10 feet ladders.

Extension Ladders—Sales are reported to be fairly large. Waggoner, 40 per cent. off list.

Galvanized Wire—A fair trade is being done. We still quote: $2.37 1-2 f.o.b. Cleveland.

Coiled Spring Wire—A very fair demand is reported with no change shown in prices.

Barb Wire—Business being done is very large, and prices steady.

Wire Nails—Demand for nails is steady and large, owing to active building operations. Nominal quotations are $2.25 f.o.b. Toronto.

Cut Nails—Cut nails continue to be sold in large quantities. Prices remain firm. Quotations are $2.40 per keg f.o.b. Toronto.

Horseshoes—Demand is not so great as in the Winter months, but the call is very good for this season of the year. We quote as follows: "P. B." base, $3.65; "M.R.M. Co., latest improved pattern" are: Iron shoes, light and medium pattern, No. 2 and larger, $3.80; No. 1 and smaller, $4.05; snow No. 2 and larger, $4.05; No. 1 and smaller, $4.30; light steel shoes, No. 2 and larger, $3.95; No. 1 and smaller, $4.20; featherweight, all sizes, 0 to 4, $5.50; toe weight, all sizes, 1 to 4, $6.75. If shipped from factory 15c less.

Horsenails—A seasonable demand is noted. Prices remain unaltered.

Screws—No change is reported, stocks being up to the average and prices very firm.

Rivets and Burrs—No decrease in the demand is reported, while quotations continue the same.

Bolts and Nuts—Good business is being done, and mills are pushed to keep up with the demand. The same prices rule.

Woodenware—A fair call for all lines is reported, the warm weather being the season when the largest business is done.

Cordage—Business is reported active in all lines of cordage, while binder twine is being shipped in large quantities to dealers in farming districts. Prices of Manilla cordage have increased half a cent. We quote: Red Cap, 11 1-2c.; Tiger, 10 1-2c.; and Standard, 9 1-2c.; Cordage: manila, 15c.; British manila, 11 1-2c.; sisal, 10 1-2c.; double lathyarn, 10 1-2c.; single lathyarn, 10c.; sashcord, "Hercules," 30 to 32c.; "Star," 36 to 38c.; cotton twine, 3-ply, 24c.; 4-ply, 29c.; calking cotton, 16 1-2 to 17c.; cotton waste, colored, 6 3-4c.; white 11 to 13c.

Cement—The general activity in building has caused prices to stiffen considerably, and no concessions are being made to buyers. The absence of American cement also tends to make the market steadier. We quote: For carload orders f.o.b. Toronto, Canadian Portland, $1.75; American Portland, $1.75. For small orders ex warehouse: Canadian Portland, $2; American Portland, $2.

Firebrick—Prices have declined during the week owing to importations, the drop being about 5c. all round. Stocks are now being enlarged, and no shortage is expected. We quote: English and Scotch firebrick, 27 to 30c.; American low-grade, 20 to 25c.; high-grade, 30 to 35c.

Building Paper—Business continues active, the volume being much greater than during last season. All sections of the country are participating in the active buying.

Hides, Tallow, Skins and Wool—The only change in this week's market is an advance ½c. in country flat hides. The market is quiet and without particular indications. We quote the following prices:

Hides, No. 1 green steers, per lb		0 09
" " 2 " " "		0 08
" No. 1 green, per lb		0 08½
" " 2 " "		0 07½
Country hides, flats, per lb	0 7½	0 08
Calf skins, No. 1, selected		0 11
" " No. 2		0 09
Deacons (dairies), each		0 80
Sheep skins		1 25¼
Rendered tallow, per lb	0 04	0 04
Unwashed wool, new clip, per lb	0 13	0 14
Pulled wools, super, per lb	0 21	0 23
" " extra "	0 22	0 24
Woo-washed fleece	0 20	0 22

Canadian Metal Markets

NO great change has originated on the market during the past few days. As the season advances the absence of English metals, such as pig iron and lead, is becoming more pronounced and more noticeable. In years gone by, both of these imported metals had a good sale in this country, but their sales are now rapidly decreasing and the home product is taking their places on account of it being much cheaper. Copper, zinc and lead have been fluctuating, as of old, although at present the conditions on each of these markets are more favorable than they have been for some time. The trade in general is steady and, although no exceptionally large orders are being booked, the trade is silently active, and a good amount of business is being transacted.

Shipments from Montreal to Ontario points are more satisfactory, although jobbers are still receiving protests from buyers who have purchased goods which have been delayed at the seaboard. No strong features have developed and a satisfactory trade is being done.

QUEBEC.

Office of HARDWARE AND METAL,
232 McGill Street,
Montreal, June 2, 1905.

Pig Iron—Sales for Canadian iron are gradually increasing, and day by day it is displacing the foreign article. Prices are firm, but there is no indication at present of an advance. We quote

"Disc," No. 1	$16.50	delivered	Montreal.
"Dom.," No. 1	17.50	"	"
Usual difference in price for lower grades.			
Ferrona No. 1	$18 00	delivered	Montreal.
" No. 2	17.50	"	"
" No. 3	16 50	"	"
" No. 4	16.00	"	"
Londonderry	$18.50 to $19.00	"	"
Glengarnock	18.25	"	"
Gartsherrie	19.25	"	"
Carnbroe	18.50	"	"
Carron No. 1	19.00	"	"
" (special)	18.00	"	"
Ayresome No. 1	18.25	"	"
" No. 3	17.50	"	"
Summerlee	18.50 to 19.00	"	"
Clarence No. 1	17.50	"	"
" No. 3	17.00	"	"
No. Cleveland	17.50	"	"

Bar Iron—A fair demand continues to be prevalent on this market. Prices continue unchanged. We quote: Merchant bar, $1.80; horse-shoe iron, $2.02½; forged iron, $2.05; best refined iron, $2.20 net cash thirty days.

Tool Steel—Orders for tool steel continue to arrive quite freely. A large number of orders are also going forward, and taking all in all, trade has a very bright aspect. We quote: Colonial and Black Diamond, 8c to 9c; Sanderson's 8c to 45c, according to grade; Jessop's, 13c; Jonas & Clover's, 10c to 20c; "Air Hardening," 65c per lb.; Conqueror, 7½c; Conqueror High Speed steel, 60c.

Merchant Steel—The usual demand continues. Prices, since the recent advance, have again become firm, till today there is strong tendency for another advance. Our quotations are as follows: Sleigh shoes, $1.97 1-2: tire, $2.07 1-2; spring, $2.75; toecalk, $2.75; machinery iron finish, $2.10; reeled machinery steel, $2.75; mild, $2 and upwards; rivet, $2.00 and upwards. Net cash thirty days.

Cold-Rolled Shafting—Trade continues to be steady. Prices are unchanged. We quote: Cold-rolled shafting, 3-4 inch to 17-16, $3.85 per 100 lbs.; inch and a half to 3 inch, $3.50 per 100 lbs.

Canada Plates—Canada plates have an excellent demand, and the present indications point to a very brisk trade. No change has occurred in the price list during the past week. We quote as follows: 52's, $2.35; 60's, $2.40; 75's, $2.45; full polished, $3.60; galvanized, 52's, $3.90 to $4.00; 60's, $4.15 to $4.25.

Galvanized Iron — No noteworthy change has occurred on this market during the past week. Prices are firm and continue unchanged. We quote: Queen's Head, 28 gauge, $4.15; 26 gauge, $3.90; 22 to 24 gauge, $3.65; 16 to 20 gauge, $3.55; Apollo, 28 gauge, $4; 26 gauge, $3.75; 22 to 24 gauge, $3.75; 16 to 20 gauge, $3.40; Fleur-de-Lis, 28 gauge, $4; 26 gauge, $3.75; 22 to 24 gauge, $3.50; 16 to 20 gauge, $3.40; Comet, 28 gauge, $3.95; 26 gauge, $3.70; 22 to 24 gauge, $3.45; 16 to 20 gauge, $3.40; Bell brand, 28 gauge, $4; Gorbal's "Best Best," 28 gauge, $4.15; "Windmill Best," 28 gauge, $3.95; Sword and Torch, 28 gauge, $4.05, in less than case lots, 25c extra.

Black Sheets—No change has occurred on this market during the past week. Trade is brisk and everything in connection with the market has a bright aspect. Our quotations are as follows: 28 gauge, $2.15; 26 gauge, $2.10; 22-24 gauge, $2.05; 19-20 gauge, $2.20; 8-10 gauge, $2.30.

Antimony—Trade on this market continues to be featureless. We quote from 9 to 9 1-2c.

Sheet Zinc—After a series of fluctuations the market has again become firm, and present indications point to a steady market. Our quotations are: Cask lots, $7; small lots, $7.25.

Tin Plates—The demand on this market continues to be very good, large amounts being received very frequently by the manufacturers of tin cans, and a general line of tinware. We quote the following: Cokes, $3.75; charcoal, $4.

Ingot Tin—During the week ingot tin has become very firm. Some dealers are quoting as high as 34c., but the majority are satisfied to stay at the old quotations, which are similar to those quoted below. However, no concessions are to be obtained at these figures. The present price ranges from 32 1-2 to 33c.

Ingot Copper—Copper continues to fluctuate with its old time regularity. The market at present has a tendency to be unsteady, although no change in prices is expected. Our quotations are from 16 to 16 1-4c.

Ingot Zinc—Although no change has occurred in the price list during the past week, the market has a tendency to become easier. In fact, during the past week conditions have become easier, and it is feared that a continuation of these circumstances may affect the prices. Our quotations are: 6 1-4 to 6 1-2c.

Pig Lead—Trade on this market is gradually increasing. Generally it is good, and is expected to continue so as long as prices remain low. This prohibits the importing of foreign lead on a paying basis. We quote from $3.35 to $3.45, no concessions being obtainable.

Boiler Tubes—A steady trade is in progress on this market. A good demand has been in progress for some time and is expected to continue during the rest of the year. We quote: British and American tube, 1 1-2 inch, 8 1-2c; 2 inch, 8½c; 2½ inch, 10c; 3 inch, 12½c; 3½ inch, 16c; 4 inch, 20c; 5 inch, 45c. Price per foot net.

Scrap Metal and Old Material — General conditions on the American and English scrap metal markets continue unchanged. Numerous inquiries for old rags, however, continue to be received from the English markets, and it is expected that an excellent demand shall originate from this source. Wrought scrap has a tendency to be easier, and a decline of $1 is expected. Local foundries are buying large amounts of heavy yellow brass. An unexpected event occurred on the market last week, when old rubbers advanced from 1-4 to 1-2c. per pound. American manufacturers, finding themselves short of stock, advanced the price in the hope of receiving larger supplies. Owing to the continued circulation of rumors regarding the scarcity of old stock, it is expected that prices will remain firm for the rest of this Spring. Our quotations are as follows: Heavy copper and wire, 12 3-4c.; light copper, 11 1-2c; heavy red brass, 10 1-2c.; yellow brass, from 8 3-4c. to 9c.; light brass, 3c.; lead, 2 1-2c.; zinc, 3 3-4c.; machinery cast scrap, $14.00; wrought scrap, $14.00; stove-plate scrap, $11.00; No. 1 country rags, 75c. to 90c. per hundred lbs.; old rubbers, 5 1-4 to 5 1-2c. per lb.

ONTARIO.

Office of HARDWARE AND METAL,
10 Front street east,
Toronto, June 2, 1905.

Pig Iron—Trade is comparatively quiet, although the mills are busy. Quotations continue at:

Middlesboro, f.o.b., Toronto	$20 00	$20 50
Hamilton, No. 1, at furnace	18 00	18 50
" No. 2, "	17 50	18 00
Midland, No. 1, "	....	18 50
" No. 2, "	....	18 00
Radnor, at furnace	....	30 00
Londonderry, at furnace	16 50 to	17 00

Bar Iron—Business continues steady and very satisfactory. Prices continue as follows: $1.85 f.o.b. Toronto, with discount of 2 per cent.; for extras as cut to length, while rolling, 2 feet and over, 10c per 100 lbs.; 1 foot and under 2 feet, 15c; under 1 foot, 20c; over 20 feet, by special agreement according to length and size.

Tin—A steady demand for goods comes from utilizers, and prices continue firm at 33 to 34c. per lb.

Galvanized Sheets — Demand for stocks is heavy and prices the same.

Tin Plates—Active trade is being done

PORTLAND CEMENT

DRAIN PIPES, CULVERT PIPES,
SEWER BRICKS, INVERTS,
FIRE BRICKS, FIRE CLAY,
BUILDING BRICKS,
FIRE PROOFING
ROAD PAVING BRICKS
and BLOCKS.

Correspondence Invited

F. HYDE & CO.
KING, QUEEN and WELLINGTON STS.
MONTREAL

Deseronto Iron Co.

LIMITED

DESERONTO, ONT.

Manufacturers of

CHARCOAL PIG IRON

BRAND "DESERONTO."

Especially adapted for Car Wheels, Malleable Castings, Boiler Tubes, Engine Cylinders, Hydraulic and other Machinery where great strength is required; Strong, High Silicon Iron, for Foundry Purposes.

"MIDLAND"

BRAND.

Foundry Pig Iron.

Made from carefully selected Lake Superior Ores, with Connellsville Coke as Fuel, "Midland" will rival in quality and grading the very best of the imported brands.

Write for Price to Sales Agents

Drummond, McCall & Co.
MONTREAL, QUE.
or to
Canada Iron Furnace Co.
MIDLAND, ONT. Limited

Get our prices for

GALVANIZED FLAT SHEETS

THE "VANDA" BRAND

For all purposes requiring the best quality.

It is "deadflat," well galvanized, true to gauge and specially soft for working-up. We guarantee every sheet bearing our brand.

C.F. JACKSON & CO., Limited
Wholesale Merchants
Ormidale Block, Vancouver, B.C., and
Liverpool, England

Direct Importers of:
Metals of every description, Wire Rope, Portland Cements, Firebricks, Ore Sacks, Grain Bags, etc, etc

and stocks are being increased. Prices continue firm.

Canada Plates—Much business is being done at unchanged prices.

Brass—Trade continues active and prices firm. Discounts are 10 per cent.

Lead—Satisfactory business is being done by jobbers, and prices continue firm. We still quote: Pig lead, $3.80 per 100 lbs., and bar lead, $4.80 per 100 lbs.

Zinc Spelter—Active buying is reported, the same quotations continuing to govern. We quote: 7c. per lb. for foreign and 5½ to 5¾c per lb. for domestic.

Copper—Good business is being done, but prices have been shaded on ingots. We quote: Ingot copper, 15 3-4 to 16c. per lb., and sheet copper, 21c. per lb.

Antimony—A fair trade is being done at unchanged quotations.

Old Material—Considerable activity exists in old material, and fair buying is reported. Country goods are arriving in large quantity. Wrought iron is weakening somewhat. We again quote: Heavy copper and wire, 12 1-2c per lb.; light copper, 11c. per lb.; heavy red brass, 10½c per lb.; heavy yellow brass, 9c per lb.; light brass, 7c per lb.; tea lead, $2.40 per 100 lbs.; heavy lead, $2.60 per 100 lbs.; scrap zinc, 4c per lb.; iron, No. 1 wrought, $9 to $10, No. 2 wrought, $3 to $5; machinery cast scrap, $14; stove plate, $10; malleable and steel, $5; old rubbers, 5c per lb.; country mixed rags, 65c per 100 lbs.

Coal—Importations are increasing, and stocks are being enlarged. Some orders for future delivery are being booked. We quote: Anthracite in cars at bridges: Grate, $4.85 per gross ton; egg, stove and nut, $5.10 per gross ton; pea, $3.50 per gross ton.

Standard Hocking, soft coal, in cars, f.o.b. at mines: Lump, $1.35; ¾ inch, $1.25; run of mine, $1.05; nut, 90c; N. P. and S., 60c., coarse slack, 40c; box cars 10 cents per ton additional.

Youghiogheny soft coal in cars, bonded, at the bridges: 1¼ inch, $2.45; ¾ inch, $2.35; mine run, $2.35; slack, $1.80.

For Manitoba Metal Markets see page 38.

UNITED STATES METAL MARKET.

Advance proofs furnished HARDWARE AND METAL by The Iron Age, June 1, 1905.

SOME uneasiness was at first caused by the announcement that some time since the associations in steel rails, plates, beams and steel bars had been dissolved. When the matter was more thoroughly understood the incident was dismissed as possessing only casual interest. So far as we have been able to discover, it has not in any manner affected the prices of the commodities involved. However the official relations between the individual producers may have been modified, there has been no violent rupture. There has not been any of that savage price cutting which usually follows the termination of pools, with its readjustment of prices on undelivered balances of old contracts, which guarantee clauses bring with them.

There are no indications anywhere that the deadlock between buyers and sellers of pig iron has been broken. Quite a fair tonnage is being placed to

TERNE PLATES

"Dominion" Extra quality, bright finish,

"Dean," The old reliable.

"Canada" Good standard quality.

A. C. LESLIE & CO.
MONTREAL.

ASK YOUR CUSTOMERS

if they don't need new pumps. If they do, sell them our

Standard Anti-Freezing Pumps

They'll appreciate getting a pump that doesn't have to be thawn out every zero morning.

—McDougall Pumps
—Made in Canada.



Write for Catalogue and Prices.

THE R. McDOUGALL CO., LIMITED
Galt, Ont.

BAINES & PECKOVER
TORONTO.

Ontario Agents for

B. K. MORTON & CO.'S

"ALPHA"

HIGH SPEED STEEL
AND
Crucible Cast Steel

Large stock on hand. Send for Stock List

NOVA SCOTIA STEEL & COAL CO., Limited

NEW GLASGOW, N.S.

Manufacturers of

Ferrona Pig Iron

And SIEMENS-MARTIN

OPEN HEARTH STEEL

fill immediate requirements and there is no indication in the form of demands to delay deliveries that consumption in the foundry branches is falling off. On the contrary, some of the jobbing foundries are confessedly doing a growing volume of work; so that we may be on the eve of the belated expansion in the consumption in that quarter. The markets for foundry iron throughout the country are slightly weaker, nevertheless, which is the reflex action of the lessened demand from the steel interests.

Pig iron production is falling off, however. The Steel Corporation is blowing out such isolated plants as Niles, Columbus and Zanesville, and some merchant furnaces are stopping work.

The steel market is easier and some of the makers are hunting for orders here and abroad. This is in anticipation of the closing down of mills rolling the lighter lines, notably tin plate and sheets, either for repairs or for the adjustment of wages.

Some additional orders for lake boats have been placed and further business is pending. Quite a large tonnage of plates and shapes has been taken by the mills to meet these requirements and more is coming up.

Structural material continues in good demand and some large-sized contracts have been awarded.

In the pipe trade two lots, one for 100 miles of pipe and casing for Kansas and one for 40 miles for Spokane, have been secured by the Youngstown mill.

Bars have been rather weaker, and in the west car builders have purchased at least one large block at a concession. The season contracts for the agricultural implement interests are still hanging fire.

In some branches of the old material trade a slightly better tone prevails after a period of sharp demoralization. In melting scrap the appearance of the leading interest as a seller in regarded as significant.

British Columbia Trade News

Vancouver, May 26, 1905.

THERE is a possibility that a Department of Mines, under the Interior Department, will be organizer, says a letter from Hon. Frank Oliver to the secretary of the Associated Boards of Trade of Kootenay. In his letter, the new Minister indicates that he is willing, and even goes so far as to agree to have the mining and geological branches set apart from the Interior Department entirely. The efforts of the mining men of British Columbia, and of the associated boards of trade, of the mining centres of the interior, have been put forth strongly in that direction for some time, and much benefit is hoped for by the change.

* * *

Powell River, eighty miles up-coast from Vancouver, and the centre of a fine timber area, is the site selected by the Western Canada Pulp & Paper Co. for a proposed pulp mill. The new concern is a consolidation of the interests formerly represented in the Pacific Coast Pulp & Paper Co., and the Industrial Pulp & Paper Co., both of which held large areas of pulp timber lands. The bonds of the new company have been successfully floated in London, the capitalization being $2,250,000. The company controls 163,000 acres of timber lands on the coast, principally on the mainland, north of Powell River. The proposed site has a splendid water power, which will be developed to operate the mill. The initial installation is to have a capacity of 100 tons of pulp and paper per day of ten hours. The plant is to be completed in a year, and work will begin on construction at once.

Local and eastern men concerned in the syndicates which the new company has absorbed are: J. J. Shallcross, H. B. Thompson, and Percy Criddle, Victoria; P. G. Shallcross, Vancouver; W. W. Beer, Nelson, and G. F. Beer, Toronto.

* * *

The City of Fernie, on the Crow's Nest Pass Railway, and the centre of the Crow's Nest Pass Coal Co.'s operations, is to have a sewer system and waterworks. Preliminary surveys have been made, and estimates prepared, by Col. T. H. Tracy, C.E., who has been retained as consulting engineer. A by-law to authorize the borrowing of the necessary funds is to be submitted to the ratepayers shortly. Hitherto the coal company has supplied the town with water, which has been sufficient for domestic use, but not for fire pressure.

* * *

By installing an electrical device for automatically charging the six furnaces of the Granby smelter at Grand Forks, the management has effected a saving, at 13c. per ton on all ore treated, of $80,000 per year. As the ores of the Phoenix camp, which are treated at the Granby, are very low grade, every saving effected is making it possible to continue the treatment of these large bodies of ore on an extensive scale, and realize a profit which will warrant the work being continued. It is only on a large scale of handling that a profit can be hoped for at all, and the plant has been made as perfect as possible. In addition to the electric chargers, two more furnaces are to be erected, thus greatly increasing the capacity of the plant without any very great increase in cost of operating, if any. Over 600,000 tons per year is the capacity of the smelter at present.

* * *

Steel sufficient for eight-six miles of track is stored in the Revelstoke yards of the C.P.R., and from this will be drawn the quantity necessary to iron the proposed 45 miles of the Nicola, Similkameen and Kamloops Railway, which is to be built this Summer. Construction is to begin as soon as Mr. C. E. Loss, the owner of the charter, arrives from the east, which will be in a few days. A number of men are also en route west to be employed in the railway construction. The line will be built from Spence's Bridge, a station on the C.P.R. main line, west to Ashcroft, and will be carried to Nicola Lake this year. Later it is intended to extend it through to Midway, the present terminus of the Columbia & Western, the C. P.R.'s Boundary branch. When that is completed, a short alternate route from the coast to the Boundary District will be afforded. At present it is necessary to travel to Robson, near Nelson, and take the steamers on the Arrow Lakes, reaching the main line by way of Arrowhead, at Revelstoke, which is some hours travel east of Spence's Bridge, and takes a day longer to reach.

* * *

Ships are expected to be loading lumber at the old Ross-McLaren saw mill at Millside, on the Fraser River, close to New Westminster, before September. This is the statement of Mr. Lester W. David, the new owner, who has been betting the mill fitted up preparatory to running it. A large amount has been spent in overhauling the plant and bringing it up to date. It was built many years ago, by the Ross-McLaren syndicate, well known names in Ontario lumber circles, but the mill, large as it was, has never been operated. Its capacity is equal to that of the largest of the mills on the coast. To bring seagoing vessels up the Fraser some dredging has been necessary, and that has been in hand for some time.

* * *

The Blue Funnel steamer Telemachus reached port on Monday of this week, with 800 tons of cargo for Vancouver and Victoria. She came via oriental ports direct from Liverpool. Much of the merchandise received was metals and manufactures of metals, such as wire, wire rope, steel in bars and plates, galvanized iron, and other similar lines, all of which now consumed in this province are brought by this line of steamers. A sixty day service is maintained throughout the year, and three months' from cabling orders, the goods arrive direct.

Nova Scotia Trade News

Halifax, N.S., May 30, 1905

HARDWARE dealers report business during the past week as being unsteady. Spring trade is very backward, and at present the outlook is not very promising. The market, however, is firm and prices show a strong tendency to increase. Turpentine has taken another jump, and is now quoted at 99c. This is an increase of four cents per gallon over last week, and making a total increase of fourteen cents for the month of May. Oils also show a further advance during the week, boiled being quoted at 58 and raw at 55c. The price of cement remains about steady. White's brand, which finds a large sale on this market is quoted at $2.25 per barrel of 350 lbs. Some very large orders for cement have been filled during the week. Rope also shows an advance of half a cent per pound. Pure Manila is quoted at 15c. base, and British at 11½c. Ingot tin is advancing and promises to go still higher than the present quotations. Ingot is now quoted at 36c. per pound, a jump of one cent within a week. All metals have an upward tendency. Bar iron, sheet iron, lead and iron pipe have advanced slightly and a further increase is looked for. The state of trade and the advance in price are somewhat puzzling to the dealers, who are at a loss to get at the bottom of affairs. A new industry is about to be established at Gold River, in Lunenburg. It consists of the manufacture of fire lighters. The sawdust from the lumber mills will be chemically treated and pressed into blocks, which will have the power of burning briskly for a comparatively long time.

M. F. Schurman & Co., of Kensington, P.E.I., have been awarded the contract for the erection of eight large elevated water tanks of 25,000 gallons' capacity each for the supply of the locomotives on that line. These tanks, which are constructed of metal, cost $2,500 each. The same company will also build three similar tanks of 15,000

gallons' capacity on the Murray Harbor branch. These tanks are to be elevated upon trestle-work, so that the water can flow into the engines by gravitation. All of the trestle-work will be enclosed.

Rhodes, Curry & Co. have completed their contract in connection with the erection of the Marconi wireless station at Glace Bay, and the work of installing the engines has been practically completed by the Robb Engineering Co., of Amherst.

The American steam tug Blue Bell arrived here to-day from Bathmore, with a barge in tow laden with tar for the Caritte-Paterson Co., manufacturers of tar paper.

O. J. Killiam, of Yarmouth, who has made his home in Amherst for the past year, will shortly remove to Halifax, having been appointed manager for the Maritime Provinces of the Robinson-Lindsay Rubber Co., of Toronto. Mr. Killam has been traveling for this firm for some time.

PERSONAL AND TRADE NOTES.

About $600 damage was done by fire and water in Hammill & Moore's hardware store at Galt last week.

Walter Page Baxter, of the Naturo Co., Salem, N.J., spent a few days in Toronto during the past week.

Mr. H. P. Livingstone, manager of the Dominion Linseed Oil Mills, Montreal, was in Toronto last week on business.

H. L. G. Dreyer has taken over the hardware and furniture business formerly conducted by R. Fletcher & Co., at Blind River, Ontario.

Charles Johnston, formerly a hardware traveler with Black Bros. & Co., Halifax, N.S., has removed to Vancouver.

Mr. C. C. Ballantyne, managing director of the Sherwin Williams Co., of Montreal, was in Cleveland this week on business.

J. Marshall, formerly with Wells & Emmerson, Port Arthur, has opened a plumbing shop of his own in that thriving town.

W. P. Mahar, formerly representing Black Bros. & Co., hardware merchants, Halifax, N.S., has joined the staff of Douglas, Prowse & Co., Halifax.

Bent & Cohoon, ironmongers, New Glasgow and North Sydney, N.S., celebrated their twentieth anniversary in May a neat announcement of which was sent Hardware and Metal.

D. K. McLaren, manufacturer of leather belting Montreal, has opened a branch in St. John, N.B., under the management of W. F. McLaren.

Mr. D. W. Clark, of Toronto, representing B. K. Morton & Co., and others, was a visitor at the Montreal office of Hardware and Metal this week.

Hamilton Brass Mfg. Co., whose eastern offices have hitherto been at No. 361a St. James street, and who recently moved to No. 773 Craig street, have become settled in their new premises, and are in a position to resume business.

A. Prudhomme & Bro., general wholesale and retail hardware merchants, at 1940 Notre Dame street, Montreal, intend moving to the premises formerly occupied by the Canada Hardware Co., at 10 De Bresoles street. The removal is expected to take place during the last week in June.

Mr. H. V. Lawlor returned to Winnipeg last week, after a successful trip of about two months' duration, as far west as Medicine Hat, in the interests of Henderson & Potts Co. Mr. Lawlor has been making big sales of "Anchor Brand" paints all through his territory. Next week he will be in Rat Portage, and afterwards he will travel through the Lake Dauphin region, along the C. N.R. line.

Dealers are becoming more fully aware every year of the superior quality and advantages of The Metallic Roofing Company's line of sheet metal goods.

The quality of steel that goes into them costs us more than most makers pay, while superior galvanizing gives our zinc-covered metal a weather resisting quality and capacity for wear unequalled by any other brand. There are no raw edges on our "Eastlake" galvanized steel shingles because every part is thoroughly zinc covered by separate dipping.

OUR NEW $10,000 CATALOGUE We have just issued the most complete Catalogue ever offered to the Metal Trade. It is a veritable encyclopedia of all that's practical and beautiful in the Art Manipulation of Sheet Metal. Book contains 440 pages, superbly bound and illustrated. We send it free upon request to any builder, contractor or dealer of responsibility.

THE METALLIC ROOFING CO. OF CANADA, Limited

Manufacturers Toronto, Canada

(Established Twenty Years)

We also manufacture:
"Empire" Steel Shingles
"Metallic" Steel Siding
"Metallic" Galvanized Cornices
"Metallic" Sheet Metal Fronts
"Metallic" Galvanized Crestings
"Metallic" Galvanized Finials
"Metallic" Galvanized Eavetroughs
"Metallic" Galvanized Conductors
"Hayes" Steel Lathing
"Metallic" Pressed Zinc Ornaments
"Halitus" Ventilators
"Metallic" Embossed Steel Ceilings
"Metallic" Skylights
and sheet metal building materials of all kinds.

MARITIME PROVINCES TRADE.

MR. W. S. FISHER, of Emerson & Fisher, St. John, N.B., is spending a few days in Toronto this week on one of his periodical visits. In reply to a question from Hardware and Metal, he said that business in the Maritime Provinces had been rather unsatisfactory during the past Winter, partly on account of the light hay and fruit crops of last year, but more particularly on account of the past Winter, which has been unusually severe, causing blockades on the railways to such an extent that in some instances communication between different points was cut off for three weeks at a time. Travelers were held up in Prince Edward Island for three and four weeks, while even on the mainland some of them had been unable to move from the town for a couple of weeks. Since the Spring set in, however, business has materially improved and is now fairly good.

Mr. Fisher has a great many friends in Western Canada and he was given his usual cordial reception.

Mr. Fisher says that his firm is now comfortably located in their new warehouse, and an increase in business is already appreciable. In addition to conducting a wholesale hardware business, Emerson & Fisher have a stove foundry at Sackville, N.B.

MINES AND MINERALS.

The Grand Trunk and Canadian Pacific Railways are represented as customers of Nova Scotia coal to the extent of between four and five hundred thousand tons annually.

Austin King, superintendent of the Dominion Coal Co. at Sydney, has resigned, and will leave the service of the company. He came to Canada from Pittsburg.

* * *

A new lead has been discovered in the Timmins and Dunlop silver mine near Haileybury in New Ontario, and $6,000 worth of silver nuggets were secured in one afternoon.

* * *

The following from the Iron and Coal Trades Review of London, Eng., gives an interesting view of the Canadian iron and steel industry:

"Some three years ago we were threatened with an inundation—as some people professed to believe—of Canadian iron and steel, because the Dominion company of Nova Scotia had unloaded a few thousand tons of pig iron on our shores. This journal has always maintained that there was very little probability of any considerable imports of iron and steel from the Dominion—at least, for many years to come—and this for several valid and all-sufficient reasons. In the first place the available supplies of iron ore are limited—so limited that the Dominion company, smelting in Nova Scotia, import nine-tenths of the ores they use; and in the next place, it always takes a new country a number of years, even if it has all the needful resources ready to hand—which has yet to be proved in the case of the Dominion—to establish an industry on anything like a permanently competitive basis. The situation in Canada to-day is indicated roughly but adequately by the fact that the output of pig iron in 1904 was about 50,000 tons under that of two years previously, and was not much over one-fourth of the total iron and steel requirements of the country. It would be rash to predict that Canada will never reach the ideal of the United States—self-sufficiency in all things industrial—but that attainment is yet a long way off."

STEPHENS SHINGLE STAINS

More and more every year this mode of roof treatment is coming into popular favor. Partly because they are cheaper than paint, but chiefly that they are a scientific combination of Creosote (the best wood preservative known) Manitoba Linseed Oil, coloring pigments and are excellent wood preservatives, besides imparting artistic and permanent color tones to the shingles. We make these stains in all the popular greens, reds, browns, etc., in all thirteen beautiful tints.

Sample Shingles and prices sent on request.

MANUFACTURED BY

G. F. STEPHENS & CO., Limited

PAINT AND COLOR MAKERS

WINNIPEG, - CANADA

Hardware and Metal Conditions in Manitoba.

(Market quotations corrected by telegraph up to 12 a.m. Friday, June 2, 1905.)

Office of HARDWARE AND METAL
Room 511 Union Bank Building,
Winnipeg, Man.

CROP reports collected by the railways from their agents throughout the West continue very favorable, and it is believed that the end of May finds the growing crop in better condition than for many years past. The west is optimistic in consequence, and the result is reflected in liberal buying.

* * *

The Manitoba Iron Works, Limited, have recently closed a contract with Portage La Prairie for a water tower 25 feet in diameter and 80 feet high, to be constructed entirely of steel and erected in place. This contract, involving upwards of 100 tons of steel, is the first of its kind ever awarded to a western firm, and hence it marks an epoch in the industrial evolution of the west.

* * *

The Gurney Tilden Co. are adding two storeys to their warehouse on Rupert street, making their building five storeys high with a basement.

* * *

Messrs. J. T. Sheridan and W. G. Jones, of the Pease Foundry Co., Toronto, were in Winnipeg last week consulting with Mr. T. L. Waldon, manger of the Pease-Waldon Co., of this city.

* * *

Mr. J. Irwin, western manager of Henderson & Potts Co., Limited, was in Southern Manitoba towns last week in the interests of his firm.

* * *

General business is fairly active, but there are still many complaints as to the slowness of collections. The feature of the market was the sensational advance in turpentine last week. For some time turpentine has been lower in Winnipeg than in Toronto and Montreal, and a further stiffening in primary markets induced a sudden advance here. Linseed oil has also been advanced.

Screen Wire Cloth—The price is steady at $1.55 per 100 square feet. Assorting orders are numerous.

Poultry Netting—In brisk demand. For the 2-inch mesh in No. 19 gauge wire, prices are as follows:

24-inch roll, per roll			$1 20
30	"	"	1 50
36	"	"	1 80
48	"	"	2 40
60	"	"	3 00
72	"	"	3 60

Wire—There is still a brisk demand for all kinds of wire fencing and general wire supplies. We quote:

Barbed wire, 100 lb		$2 85
Plain galvanized	6 to 8	3 39
"	9	2 50 2 90
Plain galvanized	10	3 50
"	12	3 10
"	13	3 20
"	14	3 90
"	15	4 45
"	16	4 60
Plain twist		2 85
Staples		3 35
Oiled annealed wire	10	2 96
"	11	3 02
"	12	3 10
"	13	3 20
"	14	3 30
"	15	3 45

Annealed wires (unoiled) 10c. less.

Horseshoes—No change in price since the rcent advance in steel horseshoes. We quote:

Horseshoes, iron, No. 0 to No 1	$4 55
No. 2 and larger	4 30
Snow shoes, No. 0 to No. 1	4 80
No. 2 and larger	4 55
Steel, No. 0 to No. 1	4 75
No. 2 and larger	4 50

Horsenails—Discounts are as follows: "C" brand 40, 10 and 7 1-2 per cent., "M" brand and other brands 55 and 60 per cent. Add 15c. per box.

Wire Nails—Base price continues $2.85 per keg.

Cut Nails—Base price is $3 per keg.

Screws—The demand continues very active. Discounts are as follows:

Screws, flat head, iron, bright	85 and 10 p.c.
Round " "	80 p.c.
Flat " brass	75 and 10 p.c.
Round " "	70 and 10 p.c.
Coach	70 p.c.

Nuts and Bolts—Discounts continue as follows:

Bolts, carriage, ⅜ or smaller	60 and 5 p.c.
" 7-16 and up	55 p.c.
Bolts, machine, ⅜ and under	55 and 5 p.c.
" 7-16 and over	55 p.c.
Bolts, tire	65 p.c.
Bolt ends	55 p.c.
Sleigh shoe bolts	65 and 10 p.c.
Machine screws	70 p.c.
Plough bolts	55 p.c.
Square nuts, case lots	3c. discount.
" " small lots	2½c. "
Hex " case lots	3c. "
" " smaller lots	2½c. "

Rivets—We quote discounts as follows:

Rivets, iron	60 and 10 p.c.
Copper, No. 8	29½
" No. 12	33

Coil Chain—We quote:

Coil chain, 3-16 inch	9.25
" ¼ inch	7.25
" 5-16 inch	5.20
" ⅜ inch	4.60
" 7-16 inch	4.45
" ½ inch	4.30
" ⅝ inch	4.10
" ¾ inch	4.00

Shovels—Discounts on spades and shovels continue 40 and 5 per cent.

Harvest Tools—Discount 60 per cent.

Axe Handles—Trade continues quiet. We quote:

Axe handles, turned, s.g.hickory, doz	$3 15
No. 1	1 90
No. 2	1 60
Octagon extra	2 30
No. 1	1 60

Axes—We quote:

Axes, chopping	$ 6 75 to 12 co
" double bitts	12 00 to 18 co

Files—We again quote as follows:

" Arcade "	70 and 10 p.c.
" Black Diamond "	60 p.c.
" Nicholson's "	62½ p.c.

Building Paper—Owing to the immense amount of building on hand and contemplated there is a heavy demand for building paper. We quote:

Anchor, plain	55c.
" tarred	70c
Pure fibre, plain	60c.
" " tarred	80c.

Ammunition, Etc.—We again quote:

Ammunition, cartridges, Dominion R.F.	50 and 5 p.c.
Dominion, C.F., pistol	30 p.c.
" military	15 p.c.
Ammunition, cartridges, American R.F.	33⅓ p.c.
C.F. pistol	5 p.c.
C.F. military	10 p.c. advance.
Loaded shells:	
Eley's and Kynoch's soft, 12 gauge	
black	15 00
chilled, 12 gauge	16 00
soft, 10 gauge	18 00
chilled, 10 gauge	19 00
Shot, Ordinary, per 100 lb	6 25
Chilled	6 75
Powder, F.F., keg, Hamilton	4 75
F.F.G., Dupont's	5 00

Tinware, Etc.—We quote again as follows:

Tinware, pressed, retinned	70 and 10 p.c.
" " plain	75 and 2½ p.c.
" pieced	30 p.c.
Japanned ware	37½ p.c.
Enamelled ware, white	45 p.c.
" Famous	50 p.c.
" Imperial	50 and 10 p.c.

Cordage—Rope is steady. We quote:

Rope, sisal, 7-16 and larger, basis	11 25
Manila, 7-16 and larger, basis	15 25
Lathyarn	11 25

Solder—Quoted at 21c.

Bluestone—Quoted at $5.75 per cwt. Season is over, and there is little demand.

Iron and Steel—The market is steady and fairly active. We quote:

Bar iron (basis)	2 50
Swedish iron (basis)	4 75
Sleigh shoe steel	2 65
Spring steel	3 00
Machinery steel	3 50
Tool steel, Black Diamond, 100 lb	9 50
Jessop	13 00

Black Sheets—There is an active demand at steady prices. Quotations are:

Black Sheets, 10 to 16 gauge, 100 lb	3 50
18 to 22 gauge	3 75
24 gauge	3 90
26 gauge	4 00
28 gauge	4 10

Galvanized Iron—Western demand continues very active. Prices are as follows:

Apollo, 16 gauge	4 00
18 and 20 gauge	4 00
22 and 24 gauge,	4 25
26 gauge	4 25
28 gauge	4 50
30 gauge or 10½ oz	4 75
Queen's Head, 24 gauge	4 25
26 gauge	4 50
28 "	4 75

Tinplates—Prices are:

Tinplate, IC charcoal, 20 x 28, box	9 50
" IX "	11 50
" IXX "	13 50
Canada plate, 18 x 21, 18 x 24	3 25
Canada plate, 20 x 28	3 50
Canada plate, full polished	4 00

Sheet Zinc—The price of cask lots is $8.25 per 100 lbs.; price of broken lots is $8.75.

Pig Lead—$4.50 per 100 lbs.

Iron Pipe—We quote:

Black iron pipe, ¼ inch	
" ⅜ "	2 45
" ½ "	2 65
" ¾ "	3 00
" 1 "	3 80
" 1¼ "	5 50
" 1½ "	7 45
" 2 "	8 95
	12 30

THE GREAT WEST WIRE FENCE CO., Limited

Sole Owners for Dominion of Canada for

Rankin Patent Wire Lock



Patented June 30th, 1903

Office and Factory:
76-82 LOMBARD ST.,

Manufacturers of

Railway, Farm, Lawn and Ornamental Fences

Field erected type and all made of No. 9 Hard Coiled Steel Wire. Easily erected and sold in quantities to suit purchaser. Liberal discounts to dealers handling our goods. Also manufacturers of

Steel Farm and Lawn Gates

and dealers in fencing tools of all descriptions.

WINNIPEG, Manitoba

FOR **STORAGE** IN **WINNIPEG**

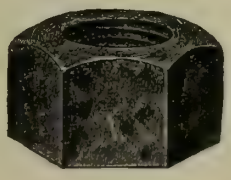
Handling and reshipping of goods. Brick warehouse with track facilities

MACKENZIE BROS. WRITE 244 PRINCESS ST. OR P.O. BOX 579 **WINNIPEG.**

ORNAMENTAL GLASS

The time is past for the west to send east for anything in the Ornamental Glass Line. We do bevelling, silvering, chipping, sand-cutting, Lead and Copper Work, Memorial Window Work, etc. Workmanship surpassed by none. Staff increased double in past year. Prices right.

THE WINNIPEG PAINT AND GLASS CO., LIMITED
WINNIPEG, CANADA



THE JOHN MORROW MACHINE SCREW COMPANY, Limited

Manufacturers of

Set and Cap Screws, Special Milled Work, Engine Studs, Etc. Cold Punched Nuts of every variety of finish.

INGERSOLL, ONT.

ASK YOUR JOBBER FOR

GILBERTSON'S

COMET

Brand Galvanized Sheets

The brand you should handle unless you want to pay a fancy price for something that will not work any better. Every sheet guaranteed.

Makers: W. GILBERTSON & CO., Limited
Pontardawe, South Wales.

Petroleum—No change in price. We quote:

Silver Star, per gal	20½c.
Sunlight "	21½c.
Eocene "	23½c.
Pennoline "	24½c.
Crystal Spray "	23½c.
Silver Light	21½c.

(In barrels f.o.b. Winnipeg.)

Paris Green—In seasonable demand. We quote:

English Paris Green—Petroleum barrels, 14 1-4c.; arsenic kegs, 14 1-2c.; 50 and 100-lb. drums, 15c.; 25-lb. drums, 15 1-2c.; 1-lb tins, 17c.; 1-2-lb. tins, 19c.; 1-lb. cardboard boxes, 16c.; 1-2-lb. ditto, 18c. Terms 2 per cent. off for cash in 30 days: 90 days net.

Canadian Paris Green—50-lb. drums 17c., bulk 18c.; in 1-lb. packages 20 cents.

Paints and Oils—The feature of the

CONDENSED OR "WANT" ADVERTISEMENTS.

YEARLY CONTRACT RATES.

100 words each insertion,	1 year	$30	00
" " "	6 months	17	00
" " "	3 months	10	00
50 " "	1 year	17	00
" " "	6 months	10	00
25 " "	1 year	10	00

SITUATION WANTED.

ADVERTISING man, well up in catalog compiling and business correspondence, open for engagement. Box C 48, HARDWARE AND METAL, Montreal. (22)

AGENT OPEN FOR ENGAGEMENT.

A MANUFACTURERS' agent wishes to represent English, American or foreign manufacturers of hardware specialties; references exchanged. Box 250 HARDWARE AND METAL, Toronto. (23)

BUSINESS CHANCES.

GOOD hardware store, plumbing and tinsmithing business for sale in Western Ontario. Apply Lock Box 122, Listowel. (22)

MACHINE FOR SALE.

BRAKE and tinsmith's machine, used short time Apply Box 254, HARDWARE AND METAL, Toronto. (22)

SEALED TENDERS addressed to the undersigned, and endorsed "Tender for Post office at Vancouver, B. C.," will be received at this office until Friday, June 23, 1905, inclusively, for the erection of a Post Office building at Vancouver, B. C., according to plans and specification to be seen at the Department of Public Works, Ottawa, Ont., and at the Vancouver Armoury, Vancouver, B. C.

Tenders will not be considered unless made on the printed form supplied and signed with the actual signatures of tenderers.

An accepted cheque on a chartered bank, payable to the order of the Honourable the Minister of Public Works, equal to ten per cent (10 p. c.) of the amount of the tender, must accompany each tender. This cheque will be forfeited if the party tenderingdecline the contract or fail to complete the work contracted for, and will be returned in case of non-acceptance of tender.

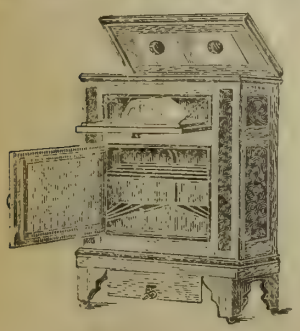
The Department does not bind itself to accept the lowest or any tender.

By Order,
FRED. GELINAS
Secretary.

Department of Public Works,
Ottawa, May 16, 1905.

Newspapers inserting this advertisement without authority from the Department, will not be paid for it. (23)

REFRIGERATORS



Up-to-date dealers buy our lines because our refrigerators are unequalled for their finish, construction and general appearance. Write for Catalogue.

C. P. FABIEN
Refrigerator Manufacturer
MONTREAL, - - CANADA

paint and oil market is the sensational advance in turpentine last week to $1 per gallon in barrel lots. A further advance is probable. The reason is to be found in a short crop and the efforts of southern speculators who are trying to control the market. For some time prices in Winnipeg have been lower than in Montreal and Toronto, and a recent advance in the primary markets made necessary a big advance here. Linseed oil has also advanced 2 cents per gallon. General business is very active, and prices are steady. We quote:

White lead (pure)	$5 00 to $5 50
Bladder putty, in bbls	0 02½
" " in kegs	0 02¾
Turpentine, pure in barrels	$ 1 00
Less than barrel lots	1 05
Linseed oil, raw	0 62
Boiled	0 65

Window Glass—There have been no further advances in window glass. Business is active and supplies none too large. We quote:

16-oz. O.G., single, in 50-ft. boxes—	
16 to 25 united inches	$2.40
26 to 40 "	2.65
16-oz. O.G., single, in 100-ft. cases—	
16 to 25 united inches	4.25
26 to 40 "	4.50
41 to 50 "	5.00
51 to 60 "	5.50
61 to 70 "	6.00
21-oz.C.S., double, in 100-ft. cases—	
26 to 40 united inches	7.35
41 to 50 "	8.40
51 to 60 "	9.45
61 to 70 "	10.50
71 to 80 "	11.55
81 to 85 "	12.60
86 to 90 "	14.75
91 to 95 "	17.30
6 to 100 "	



COVERT MFG. CO.
Troy, N.Y
Auto Screw Jack
Harness Snaps, Chain, Rope and Web Goods, etc.
FOR SALE BY JOBBERS AT MFRS. PRICE

IDEAL
Woven Wire Fencing



MAKES MONEY FOR YOU

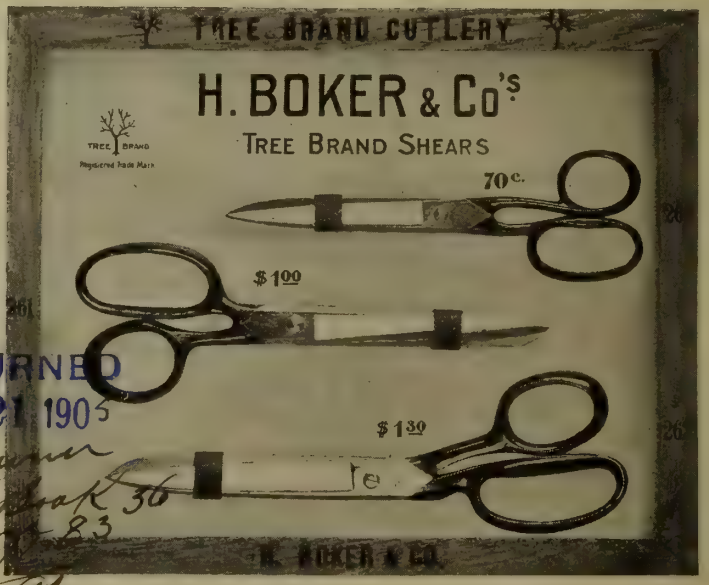
Your customer, the farmer, wants a fence that can be put up quickly and easily just when he wants it. Hand made fences cost too much when you figure the time it takes to build them, to say nothing of the hard work.

Why not sell "The Ideal," the best woven wire fence made? You can build up a permanent trade that will pay you as much as any line you are handling. Other hardware merchants are doing it. Why not you? The Ideal will give satisfaction to your customer and make him your friend.

Have you seen the Ideal? Let us send you a sample and catalogue showing why Ideal fence made from No. 9 hard steel wire throughout is the strongest and the best value.

Ask us about the Ideal all metal farm gate.

The McGregor-Banwell Fence Co., Limited,
WALKERVILLE, ONT.
Merrick, Anderson & Co., Winnipeg, Man.
Sole Agents for Man. and N.W.T.



SHOW FRAME

given away free with an order for three half-dozens Shears, as illustrated above. May be procured through all leading Wholesale Hardware firms.

RETURNED JUN 21 1905

ADDITIONAL FACTORIES.

Work has already commenced on the new factories of the Canadian Rubber Co., Limited, of Montreal, Papineau avenue and Notre Dame street. When completed this latest addition will be a distinct ornament to the street in which they are situated, as several old buildings will be pulled down and removed to make room for the new factories which are laid out on the most modern plans. A new roof and many other marked improvements are being added to the existing plant. All the contemplated improvements, it is anticipated, will be completed within eighteen months. The extension of the manufacturing facilities will make it possible to add very largely to the present large force of people employed.

NEW AGENCIES.

Arrangements have been made with the John McDougall Caledonian Iron Works Co., Montreal, whereby they become sole licensees for the manufacture of the Doble system of water wheels in the Dominion of Canada. The tangential water wheels and needle regulating nozzles manufactured by the Abner Doble Co., of San Francisco, are well known for their excellence of design and workmanship. The McDougall Co. have an extensive machine works, their plant including machine shops, pattern shop, foundry, forging works and structural material shop. Their plant is therefore, well equipped for the manufacture of water wheels and other hydraulic machinery.

They are prepared to furnish the steel pipe, structural work and all machinery necessary for a complete power plant.

OFFICERS ELECTED.

As already mentioned, the Great West Wire Fence Co. are commencing to manufacture wire fencing in Winnipeg, having become sole owners in Canada of the Rankin patent wire lock. At a recent meeting of the shareholders the following officers were elected: President, Thomas Black; vice-president, W. A. Morkell; managing director, W. M. Andrews; secretary-treasurer, W. L. Belyea.

BUSINESS EXPANDING.

The North & Judd Mfg. Co., New Britain, Conn., manufacturers of hardware, are to make extensive improvements to their plant. A five-storey addition will be erected to provide for the overflow of manufacturing departments. A foundry building, which has been used as a kiln department, will be remodeled for a molding room, and the kilns will be located in a building recently erected for the purpose. The improvement will considerably increase the capacity of the already large works.

The Columbia Bolt & Nut Co., Bridgeport, Conn., are installing their machinery in their new shop. The change will afford 5,000 square feet of additional manufacturing space. New machinery has been purchased and it is expected that more will be needed later on.

The increase in the plant of the Challenge Cutlery Co., Bridgeport, Conn., will make it one of the largest factories for the manufacture of razors and pocket knives in the United States and will increase the number of employes from 260 to 500. The new buildings will cost $75,000.

LAMPS LANTERNS

STANDARD LEADERS

Banner Cold Blast
Climax Safety Tubular
Shelby Incandescent
Downward Incandescent

For sale by all prominent dealers

Manufactured by

ONTARIO LANTERN & LAMP CO., Limited
HAMILTON, Ontario

Why don't you try



Galvanized Sheets

Once bought, always bought by those who know value for money

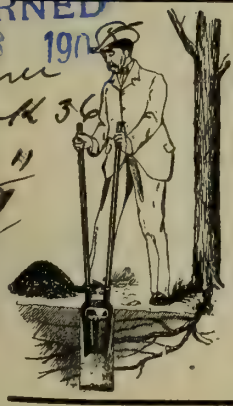
MAKERS J. SUMMERS & SONS, Limited.
AGENT F. HANKIN, Montreal.

Genuine Pratts Astral Lamp Oil

Sold in all countries and recognized as the highest grade oil manufactured.

WHOLESALE ONLY

THE QUEEN CITY OIL COMPANY, Limited, - TORONTO, ONT



A Good Line

Beaver Post-Hole Digger

Will please your customer. A pleased customer is an asset to any business.

No wood to rot, check or break. Special discounts to the trade.

Canada Foundry Company, Limited

HEAD OFFICE AND WORKS: TORONTO, ONT.

District Offices: Montreal, Halifax, Ottawa, Winnipeg, Calgary, Vancouver, Rossland.

A New Revolver!

MODEL 1904



H. & R. Double Action
Model 1904
38 Caliber
also 32 Caliber
6 Shot.

A solid frame revolver following the pleasing lines of our famous H. & R. Automatic, and which we are supplying in place of the American Double Action, as made by us for more than twenty years.

SPECIFICATIONS

32 caliber; 6 shot; 2½ inch barrel; weight 16 oz; C. F. S. & W. cartridge; also S. & W. Long and Colt New Police Cartridges.
38 Caliber; 5 shot; 2½ inch barrel; weight 15 oz.; C. F. S. & W. cartridge.
FINISH—Nickel or blue. We can also furnish with 4½ and 6 inch barrels.

Harrington and Richardson Arms Co.

Worcester, Mass., U. S. A.

Makers of H. & R. Single Guns. Catalog on Request

PAINT, OIL AND BRUSH TRADES

CORRODING LEAD IN CANADA.

ONE of the largest and most important developments to transpire within recent years, and which is of the utmost importance to the paint and oil trade, is the opening of a plant in Canada for the corroding of white lead and the manufacture of red lead. In years gone by, white lead has been corroded in the United States, the raw material being exported from our mines to the country to the south of us, there corroded and re-shipped back to us in the altered and refined state.

The Carter White Lead Co., who have undertaken to supply this market with a home manufactured article, have secured large buildings at 91 Delorimier avenue, Montreal, formerly owned by the Canadian Pacific Railway, and have installed machinery and apparatus to corrode enough lead to supply the entire demand originating on the Canadian market.

The Carter people are by no means a new concern, having already two large corroding plants, one at Omaha and the other at Chicago. They have been in business 30 years, and during this period their lead has become known over the length and breadth of the United States as an article of quality and durability. This is important to the trade, who can feel satisfied that this company shall by their past experience be able to turn out a brand of white lead, equally as good, if not superior, to that which is being used by the Canadian utilizers at the present time.

There are many ways of corroding white lead, which is a carbonate of lead. The ideal chemical composition is from 69 to 75 per cent. carbonate of lead and from 25 to 31 per cent. hydroxide of lead. From time immemorial the chemical agents used in corrosion have been acetic acid (vinegar) and carbonic acid gas (CO_2). Processes differ in the physical methods of bringing these chemical agents into contact.

In the common, or "Dutch" process, the lead is run into "buckles" or round discs, about eight inches in diameter, one quarter of an inch in thickness, and perforated. These buckles are placed in jars at the bottom of which is acetic acid. These jars are then placed in manure or spent tan bark, which generates the carbonic acid gases. In three or four months the buckles are corroded, with the exception of a thin film in the centre. When this juncture is reached they are then run through rollers which separates the corroded portion from the uncorroded core and the latter is cast back into the melting pot. The corroded portion is now washed to free it from the acetic acid, ground and dried. In this last form it has been imported into Canada and here ground in oil.

The new method which was adopted by the Carter Co. when they became interested in this business some thirty years ago, and which they are installing in their Canadian plant, is exactly the same, chemically, as the "Dutch" method but, however, instead of running the metallic lead into buckles, it is blown into small particles, about the size of gunpowder, and in place of using spent bark or manure to produce carbonic acid gas, coke is burned, and the gas obtained therefrom, after going through a purifying process, is ready to do its work and transform the quantity from the mineral to the refined state.

When a representative of Hardware and Metal called upon Mr. Cornish, of the Carter White Lead Co., a few days ago, he was shown several tests which had been made between their lead and lead corroded under the "Dutch" method. The lead corroded under the new system certainly shows up clearly and brightly and, according to Mr. Cornish, it has a greater covering capacity. The representative was shown the entire plant and given a general idea regarding is the corroding room. Further on are method.

The building is some 465 feet in length, 115 feet in width and 50 feet in height. A room measuring some 175 feet in length, which adjoins the offices, is the corroding room. Further on is found the melting and drying rooms, and on a little further there are vats, large tubs, and pans, in which the lead is washed and dried preparatory to being packed.

The pig lead after it arrives is placed on an elevated chain carrier which carries it up to a melting pot manufactured of cast iron and which measures some eight feet in length. As the lead is being melted it passes through a narrow pipe injected into the pot near the bottom on one side, into the room beyond. Covering and surrounding this short pipe is a closed cavity, circulating in which is steam under full pressure, which escapes through a small opening surrounding the end of the pipe farthest from the melting pot. The steam as it presses forward from this small opening, separates the melted lead as it comes forth from the pipe. The lead, now that it is separated into small particles, falls into a large room, the floors of which are made of steel and are so situated as to resemble a hopper, the sides elevated and declining until they meet at the centre. The lead when it reaches this floor rolls down until it reaches the centre, where it passes through an opening into covered carriers fastened to an endless chain which conveys it to a small car near the centre of the building. These cars when filled are shoved along a track to an elevator which elevates them to another room higher up in the building where, by means of another track, the car reaches the corroding room.

(To be Continued)





GET GOING RIGHT

Hold a little convention with yourself and make up your mind to handle "The Imperial Line."

Money Makers Sure.

The Imperial Varnish & Color Co. LIMITED

TORONTO, CANADA.





TO THE VARNISH BUYER

the most serious considerations are quality, reliability and uniformity, and these qualifications are of special importance to the dealer who is trying to build up a permanent varnish trade.

Berry Brothers' label or brand may be safely relied upon as ensuring the above conditions.

Our varnishes are the safest goods to handle and the surest and most reliable goods to use.

BERRY BROTHERS, Limited

VARNISH MANUFACTURERS

WALKERVILLE, ONT.

Write for our 100 page illustrated catalogue. Every dealer should have a copy for reference.

McArthur, Corneille & Co.

MONTREAL

Glue and Gelatine

An extensive assortment, to suit all requirements.
WILL BE PLEASED TO SUBMIT SAMPLES AND PRICES

MANUFACTURERS AND IMPORTERS OF . . .

White Lead, Oils and Colors, Prepared Paints, Window Glass, Varnishes, Etc.

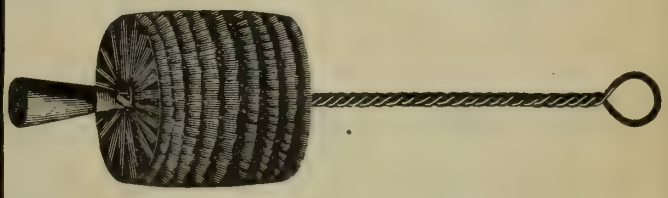
SELLING AGENTS IN CANADA

For the GENUINE
Imperial French Green
of JOHN LUCAS & CO., PHILADELPHIA.

And CELEBRATED
English Varnishes
of CHAS. TURNER & SON, LONDON.

Please mention HARDWARE AND METAL when writing.

SKEDDEN'S BRUSHES



Do you Sell Them?

—A Skedden customer is a satisfied customer.

—A satisfied customer is a steady customer.

—A steady customer is worth having—worth being.

—Are you a Skedden customer?

Have You our Catalogue?

The Skedden Brush Co., Limited, Hamilton

Toronto Office—176 Victoria St. O. VICKERY.
'Phone Main 3358.

ANCHOR BRAND
H&P REGISTERED
TRADE MARK

A RECORD BREAKER!!

Is what we may call the unprecedented demand THIS SPRING for

"ANCHOR LIQUID HOUSE PAINTS"

Satisfying the customer by supplying a SUPERIOR PAINT has produced the desired result, and everyone knows that a SATISFIED CUSTOMER is the best possible advertisement. That's what we aim at, and results continue to prove that it can be accomplished with our

Anchor Liquid Paints

The only **White Lead** used in which, "BRANDRAM'S B. B. GENUINE," has been the WORLD'S STANDARD for nearly 200 YEARS.

BRANDRAM BROS & CO
BRANDRAM'S B. B. WHITE LEAD
REGISTERED TRADE MARK
MANUFACTURERS LONDON ENGLAND

Manufactured by

HENDERSON & POTTS, Limited
HALIFAX and ST. JOHN

HENDERSON & POTTS CO., LIMITED
MONTREAL and WINNIPEG

Paint and Oil Markets

QUEBEC.

Office of HARDWARE AND METAL,
232 McGill street,
Montreal, June 2, 1905.

ANOTHER strong advance in turpentine has caused the trade, both retail and wholesale, to become alert and on the qui vive in regard to the movements likely to be made on the market during the next few days. The upward jump of 12c. has advanced the price to $1.05 a gallon. This is a very high figure and has not been equalled at the principal shipping points in the south since the year 1871. The reasons put forth for these prevailing conditions are numerous. Some attribute it to the lateness of the crop, which causes a doubt as to its quantity. Others claim that the increased consumption at home and abroad have been factors which have helped the speculators to force the market upward. Quite a number of shorts are on the market for June 1st delivery, and there may be a tendency for a decline in prices after the date for delivery has passed, or after all the shorts have been covered. Linseed oil on the English market continues to be firm, and during the week an advance of a few cents occurred on the London market. Conditions on this market have become firmer, and at present there is a strong tendency for an advance. White lead has a good demand. The continuation of the rumors regarding the advance in tariff has resulted in a large majority of the local wholesale merchants and grinders purchasing large amounts for stock purposes. A heavy demand continues for ready-mixed paints, and the aspect of trade in general is of the brightest nature.

Canadian Paris Green—Prices continue unchanged. Our quotations are as follows: Barrels, 15 1-4c.; arsenic kegs, 15c.; 50 and 100 lb. drums, 16c.; 25 lb. drums, 16 1-2c.; one pound packages, 17c.; half-pound packages, 19c.; one pound tins, 18c. Terms 2 per cent. discount for cash in 30 days or 90 days net.

English Paris Green—Pure English Paris green, petroleum barrels, 15 1-4c.; arsenic kegs, 15 1-2c.; 50 and 100 lb. drums, 16c.; 25 lb. drums, 16 1-2c.; one pound paper boxes, 17c.; one pound tins, 18c.; one-half pound paper boxes, 19c.; one-half pound tins, 20c. Terms, 2 per cent. off thirty days, or ninety days net from date of shipment.

Turpentine—Single barrels, $1.05 per gallon; two to four barrels, $1.04 per gallon; for smaller quantities than barrels, 5c. extra per barrel is charged. Standard gallon is 8.40 lbs. f.o.b. point of shipment, net 30 days.

Linseed Oil—Raw, one to four barrels, 52c.; five to nine barrels, 51c.; boiled, one to four barrels, 55c.; five to nine barrels, 54c. f.o.b. Montreal. Net 30 days.

Ground White Lead — Best brands Government standards, $4.70 to $4.85; No. 1, $4.45 to $4.60; No. 2, $4.20 to $4.35; No. 3, $3.87 1-2 to $3.97 1-2; No. 4, $3.50 to $3.60, all f.o.b. Montreal.

Dry White Zinc—Pure dry in casks, 7c.; in 100 lb. kegs, 7 1-2c.; No. 1 zinc, in casks, 6c.; in 100 lb kegs, 6 1-2c.

White Zinc (ground in oil)—Pure, 25 lb. iron, 7 1-2 to 10c.; No. 1, 6 1-4c.; No. 2, 5 1-4c.

Putty—Pure linseed oil 175 to 185. Bulk in barrels, $1.50; in 25 lb. irons, $1.80; in tins, $1.90; bladdered putty in barrels, $1.75.

Orange Mineral—Casks, 7 1-4c.; 100 lb. kegs, 7 1-2c.; smaller quantities, 8 1-2c.

Red Lead—Genuine red lead in casks, $4.50 in 100 lb. kegs, $4.75; in less quantities at the rate of $5.75 per 100 lbs.; No. 1 red lead, casks, $4.25; kegs, $4.75, and smaller quantities, $5.50.

Shellac Varnish—Pure white, $2.60 to $2.80; pure orange, $2.55 to $2.65; No. 1 orange, $2.30 to $2.45.

Mixed Paints—$1.20 to $1.40 per gallon.

Castor Oil—8 3-4c. to 9 1-4c. in wholesale lots, and 1-2c. additional for small lots.

Litharge—Ground, in casks, 5c.; in less quantities, 5 3-4c.; flake litharge, casks, $5.50; smaller quantities, $6 per 100 lbs.

Refined Petroleum—No change has occurred on this market during the past week. Our quotations are as follows: American prime white 14 1-2c., American water white 16c.

ONTARIO.

Office of HARDWARE AND METAL,
10 Front street east,
Toronto, June 2, 1905.

ANOTHER jump skyward is recorded in turpentine, quotations being advanced 10c. over last week, and now being firm at $1.05 in single barrel lots and $1.10 in smaller quantities. All sorts of reasons are given for the rise, and it is difficult to choose the correct one from the many. It seems likely, however, that some combinations have been framed to hold back the supply, empty the market, and cause a great demand amongst users and amongst jobbers who had booked orders for May and June delivery.

Linseed has also gone up another cent, and Canadian crushers are realizing the mistake made last fall in allowing the Canadian crop of flax seed to pass over the line to the Americans. As no new stock can be secured for a couple of months, and it is rather late to import seed, it is unlikely that relief can be had from the home crushers.

Mixed paints are exceptionally active,

THERE IS NONE BETTER
THAN
ALUMINUM PAINT

for Radiators, Registers, Steam Pipes, Gas Ranges, and all kinds of Iron and Metal Work. Our Aluminum Paint will stand extremes in heat, cold or moisture. Better get the prices of this line—***to-day.*** Also catalogue.

THE STANDARD PAINT & VARNISH WORKS CO., LIMITED, Windsor, Ont.

"The Tool Holder People"
Armstrong Bros.
Tool Company
Manufacturers of Armstrong Patent Lathe and Plan Tools and other machine shop specialties.
617-621 Austin Ave., CHICAGO, ILL.

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OIL AND COLOURMAN'S JOURNAL
for news of the British Oil, Paint, Soap, Varnish Chemical and Drysaltery Trades.
Subscription for Canada, $2.00 per year from date, post free. Sample for 10 cents.
SCOTT, GREENWOOD & CO.
19 LUDGATE HILL - LONDON, ENG.

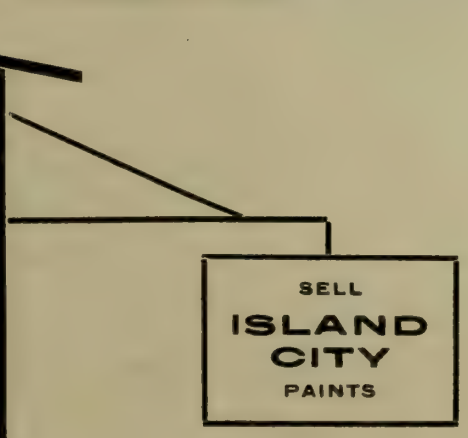
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Cannstatt, Germany
SPINNERS
STAMPERS
PIERCERS
PLATERS
and JAPANNERS
Nickel plated, fancy, household and kitchen articles; advertising and shop front clocks; articles for export made to order and German hardware bought and shipped on commission.

McCaskill, Dougall & Co.
Manufacturers
RAILWAY, CARRIAGE AND BOAT **VARNISHES.**
HIGH-GRADE FURNITURE and HOUSE VARNISHES
MONTREAL.

GLUES of every kind, and for every purpose. Our glues enjoy large sales in almost all countries of the world, and our brands are generally to be seen amongst good stocks of glues. We believe we are giving better value than any other manufacturer, and we want to submit our lines to the Canadian test. Samples gladly sent in reply to inquiries.
GROVE CHEMICAL CO. Ltd., Appley Bridge, Lancashire, Eng.

We Have the Glass You Want
—THE PRICE IS RIGHT.—
Our Distributing Centres keep down your freight charges and give a speedy delivery
The Consolidated Plate Glass Co., of Canada, Limited
TORONTO MONTREAL LONDON
OTTAWA WINNIPEG

. & CO.
ER'S
ITY
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AL
E



THIS
IS THE
HOUSE
OF
QUALITY

P. D. DODS & CO., Vancouver, Winnipeg, Montreal, Toronto

"ON DIT!"

It is said that to sell any article now-a-days you must advertise freely. Be this as it may, the fact remains that for years we have not spent a cent in advertising

"Elephant" White Lead or the ***Canada Paint Company's Decorators Pure White Lead***

and yet the sales were never so large as they are to-day. They have doubled in a very short time. The reason is not far to seek. One is the unerring success which follows undoubted **Quality**, the energy of our **salesmen**, and, still another reason, that each Iron of the **Canada Paint Company's Decorators Pure White Lead** and each Iron of the **Canada Paint Company's Genuine "Elephant" White Lead** bears the following yellow label lithographed in colors :

CANADIAN STANDARD

THE WHITE LEAD PAINT CONTAINED IN THIS PACKAGE IS GUARANTEED BY THE WHITE LEAD ASSOCIATION OF CANADA TO BE ABSOLUTELY PURE.

John Hoyes
Accountant and Trustee, Secy. of the Association

502288

THE WHITE LEAD ASSOCIATION OF CANADA GUARANTEED PURE LEAD AND OIL

205 St. James Steeet MONTREAL

the first of the month having brought a rush of orders. Paris green is being retailed in large quantity, and other lines are moving satisfactorily.

White Lead—Ex-Toronto, pure white lead, $4.75; No. 1, $4.37 1-2; No. 2 $4; No. 3, $3.62 1-2; No. 4, $3.35 in packages of 25 lbs and upwards; 1-2c. per lb. extra will be charged for 12 1-2 lb packages; genuine dry white lead, in casks, $4.25.

Red Lead—Genuine in casks of 560 lbs., $4.50; ditto, in kegs of 100 lbs., $4.75; No. 1, in casks of 500 lbs., $4 to $4.25; ditto in kegs of 100 lbs., $4.50.

White Zinc—Genuine French V. M., in casks, $6.50 to $7; Lehigh, in casks, $6 to $6.50.

Shingle Stain—In 5 gallon lots 75 to 90c. per gallon.

Paris White—90c. to $1 per 100 lbs.

Whiting—60 to 65c. per 100 lbs; Gilders' whiting, 75c.

Shellac—Pure orange in barrels, $2.75 to $3; white, $2.85 to $3.10 per barrel; No. 1 (orange), $2.25.

Linseed Oil—Our quotations are: Raw, 1 to 4 barrels, 56c.; boiled, 59c.; 5 to 9 bbls., raw, 55c.; boiled, 57c.; Toronto, Hamilton, London, and Guelph, net 30 days. Advance of 2c. for delivery to outside points.

Turpentine—Single barrels, $1.05; 2 to 4 barrels, $1.04; 5 barrels and over, open, f.o.b. point of shipment, net 30 days. For less quantities than barrels, 5c. per gallon extra will be added, and for 5 gallon packages, 50c., and 10 gallon packages 80c. will be charged.

Paris Green—600 lb. barrels, 13 1-4c.; 250 lb kegs 13 1-2c.; 50 lb drums, 14 1-2c.; 1 lb. packets, 15c.

Glues—Broken sheet, in 200 lb. barrels, 5 to 25c. per lb.; cabinet glue, in barrels, 11 1-2 to 12c.; emery glue, in barrels, 15c.; bookbinders' ground, 11 1-2c.; finest American white, 19c.; No. 1 American white, 15c. per lb.

Putty—Ordinary, bladders in barrels, $1.65 to $1.75; pure linseed oil, $2 to $2.10; bulk in barrels, $1.50; pure, $1.95 to $2; 100 lb. kegs 25c. extra.

Plaster Paris—New Brunswick, $2 per barrel.

Liquid Paints—Pure, $1.20 to $1.35 per gallon; No. 1, $1.10 per gallon.

Barn Paints—70c. to 80c.

Bridge Paints—75c. to $1.

Castor Oil—English, in cases, 8 1-2 to 9c. per lb., and 10c. for single tins.

Refined Petroleum — Opening of navigation has brought an increase in business. We quote: Water white, 16c; Canadian prime white, 14½c.; American water white, 16½c. to 18½c. ex warehouse.

Crude Petroleum—A further drop is noted. We quote: Pennsylvania, $1.29; Ohio, 84c.; Somerset, 81c.; Indiana, 88c.; Canadian, $1.27.

Glass—See current quotations at the end of this issue.

WINDOW GLASS—MONTREAL.

Although nothing definite in connection with the strike has been arrived at, reports are being received to the effect that more tanks are beginning operation. The scarcity on this market is so great that local merchants are welcoming this piece of news and are looking forward to an increase in the arrivals. Considerable difficulty has been experienced by a number of the local wholesale houses during the past week in securing enough glass to satisfy the demands of their customers. In order to meet this demand some of the cutters are supplying their orders for small sizes with large stock. Prices have assumed a firmer tone at the manufacturing point, and many of the local wholesalers are of the opinion that an advance will occur on this market before long. We quote as follows: First break, 50 feet, $2.00; second break, $2.10; first break, 100 feet, $3.75; second break, 100 feet, $3.95; third break, 100 feet, $4.50; fourth break, 100 feet, $4.75; fifth break, 100 feet, $5; sixth break, 100 feet, $5.50; seventh break, 100 feet, $6.00; and eighth break, 100 feet, $6.50. Diamond star, first break, 50 feet, $2.30; second break, 50 feet, $2.50; first break, 100 feet, $4.40; second do., $4.80; third do., $5.75; fourth do., $6.50; fifth do., $7.50; sixth do., $8, and seventh do., 9. Double thick, first break, 50 feet, $3.45; second do., $3.75; first break, 100 feet, $6.75; second do., $7.25; third do., $8.75; fourth do., $10; fifth do., $11.50; sixth do., $12.50; seventh do., $14; eighth do., $16.50; ninth do., $18; tenth do., $20; eleventh do., $24, and twelfth do., $28.50.

BUILDING IN MONTREAL.

Building operations in the City of Montreal are exceptionally brisk this season, the record for the first half of May being $406,543 for new buildings, against $327,905 for the same time last year. The total value of the permits for 1905 for new buildings and repairs is $1,875,507, against $1,101,329, or $774,178 more than for the corresponding period of last year, an increase of about 70 per cent.

REPAIRING AND CONSTRUCTING.

Large gangs of men are employed in various parts of the City of Montreal, at present, in laying new rails, making fresh intersections, putting down scoria blocks, and generally improving and expanding the system. The rails used for the double intersection at the corners of streets were imported from Germany. The other part of the road is being laid with eighty-pound rails of home manufacture. The present work of construction will consume an immense amount of rails, the whole work, without considering the intersections, aggregating twenty miles of new track.

Don't wait until the demand fairly starts before you begin your advertising of Spring lines. If you begin early enough you will get the trade to thinking about your line before they want to purchase.

BUSINESS CHANGES

Ontario.

W. W. Craig, agricultural implement agent, Smith's Falls, is dead.

J. Cober & Sons, carriage makers, Brussels, have suffered loss by fire.

D. McBrien, implement dealer, Goderich, has assigned to R. G. Reynolds.

The Globe Paint and Varnish Co., Toronto, were damaged by fire; fully insured.

The J. A. Roe Co., steam-fitters' and plumbers' supplies, Woodstock, have sold to J. T. Wing & Co.

Quebec.

Cadieux & Bourque, plumbers, Montreal, have dissolved partnership.

Thos. Moll, plumber, Montreal, has been succeeded by Moll & Desormeau.

Nova Scotia.

H. W. Dakin, plumber, Digby, is offering to compromise.

Manitoba and N.W.T.

Woodhull Hardware Co., Alameda, have sold out.

G. W. Van Vliet, harness dealer, Rapid City, has sold out.

W. Gorrie, harness dealer, Wawanesa, has sold to W. J. Ardies.

L. Abramovitch, hardware merchant, Winnipeg, has suffered loss by fire.

J. Morris, dealer in agricultural implements, Hartney, is giving up business.

L. C. Porteus, hardware merchant, Carlyle, has been succeeded by Porteus Bros.

H. R. Wyatt, hardware merchant, Winnipeg, has been succeeded by Wyatt & Clark.

C. E. MacNab, hardware merchant, Moose Jaw, has sold to Siddons & Hockin.

Mathieson & Morten, dealers in agricultural implements, Lumsden, have been burned out; insured.

Anderson & Auld, agricultural implements and harness dealers, Abernethy, have been succeeded by C. H. Anderson.

Kremer & Morley, agricultural implement dealers, Innisfail, have dissolved partnership; A. Kremer continues in business.

British Columbia.

A. Berquist, blacksmith, Sidney, has advertised his business for sale.

Yukon Territory.

Fred. McLennan, hardware merchant, and R. E. Unsworth, hardware merchant, both of White Horse, have suffered loss by fire.

CEMENT COMPANY SHIPPING.

The Raven Lake Cement Co. is now shipping goods and will shortly be producing its full capacity of 500 barrels per day. Tests have proven the quality to be very high and arrangements have been made with the Ontario Lime Association to act as selling agents in Toronto.

ONE CENT *Is it worth one cent to know well not only the paints and brushes you are selling but also those your competitor is selling? A Post Card sent to our advertisers will bring you full information about their goods.*

Bagged or Casked
CEMENTS
FOR IMPORT

Obtain price from others, then get **mine.**
You will not regret it.

J. A. HENDERSON, Board of Trade Bldg., MONTREAL
Agent for T.W. & J. WALKER, Wolverhampton

WHITE LEAD BUYERS, ATTENTION

205 St. James Street

CANADIAN STANDARD

THE WHITE LEAD PAINT CONTAINED IN THIS PACKAGE IS GUARANTEED BY THE WHITE LEAD ASSOCIATION OF CANADA TO BE ABSOLUTELY PURE.



MONTREAL. 479001

Accountant and Trustee,
Secy. of the Association.

THIS LABEL GUARANTEES THAT THE CONTENTS ARE UP TO THE GOVERNMENT STANDARD

THE LEADERS



STYLE "A"



STYLE "E"

Style "A" with Double Reversible Steel Bow Lever, Patented Cream Breakers.

Style "E" with Hand and Foot combination drive and spring attachment, producing an easy and elastic motion.

The Pittman is quickly detachable from churn.

Both styles are fitted with our improved Steel Ball Bearings and mounted on Rigid Angle Steel Stands.

THE DOWSWELL MANUFACTURING CO., LIMITED
HAMILTON, Ont.



HOLLOW-WARE

PRESSED, STAMPED, and MACHINE-MADE

ENAMELLED, TINNED, GALVANIZED and JAPANNED

We manufacture every description of Hollow-ware and we guarantee that every piece is made wholly on our own premises. Our average weekly capacity, is over 700,000 pieces, of Tinned, Galvanized and Enamelled ware. Our Enamelled ware is of superior durability and finish, and is guaranteed free from any poisonous substances.

Let us have your name for our illustrated lists

The Welsh Tinplate & Metal Stamping Co., Ltd.

LLANELLY, WALES

ALLIGATOR WRENCH.

ACME HARDWARE CO., Newark, N.J., is offering the adjustable alligator wrench shown herewith. It is made of best tool steel, hardened and tempered, and is alluded to as combining strength, simplicity and rapidity of adjustment. There are no springs used in construction, all parts are visible, and the tool is guaranteed by the maker. The adjustment permits use on a nut from 3-16 up to ¾ inch one minute, and on a pipe the next minute. The wrench is designed as a high grade tool for use by plumbers, gas and steam fitters, wagon smiths, and mechanics generally. The wrench is furnished in 7, 8 and 10 inch sizes, full nickel plated. Beginning with the season of 1905 the company expects to be in position to furnish the wrench in black finish in addition to nickel plated, the black finished goods being designed for household articles. We are advised that the price of the black finished goods will be very moderate.

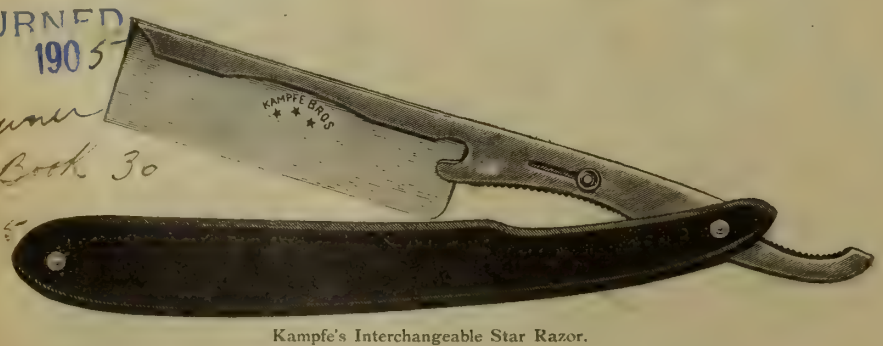


Victor Adjustable Alligator Wrench.

"STAR" RAZOR STROP HOLDER.

Davis & Davis, 7 Warren street, New York, are introducing to the hardware trade a little specialty in the shape of the "Star" Razor Strop Holder, which makes it unnecessary to select some little make-shift, like a doorknob, bedpost, or gas bracket, to act in the same capacity. It is manufactured from heavy sheet metal, struck up into proper shape and very nicely nickel plated. It is of the size of cut shown, and for a simple novelty is meeting with considerable favor.

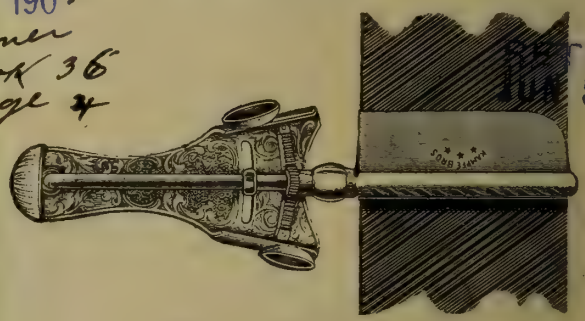




Kampfe's Interchangeable Star Razor.

KAMPFE'S INTERCHANGEABLE STAR RAZOR.

KAMPFE BROS., 8½ Reade street, New York, are the manufacturers of the Interchangeable Star Razor, to which they ask the attention of the trade. As will be seen by the illustrations we present, it is a razor put on the market in the regular form with hard rubber handle, and with the holder made of German silver, so that it is exceedingly attractive in appearance, and is made so that it rests nicely in the handle. This razor is placed upon the market because many prefer to use an old-fashioned razor, and would prefer one they could keep in order. No razor can shave properly unless properly stropped, giving it the keen edge which cuts the beard and does not pull or scratch. The Interchangeable Razor overcomes that difficulty. It is an old style razor, improved, having interchangeable blades to be inserted in the new handle. These blades can be stropped with a special stropper made by Kampfe Bros., and they are offered in sets complete, which consist of razor and handle, Star stropper and diagonal strop. The sets are provided with two, three, four or seven blades in cases complete.

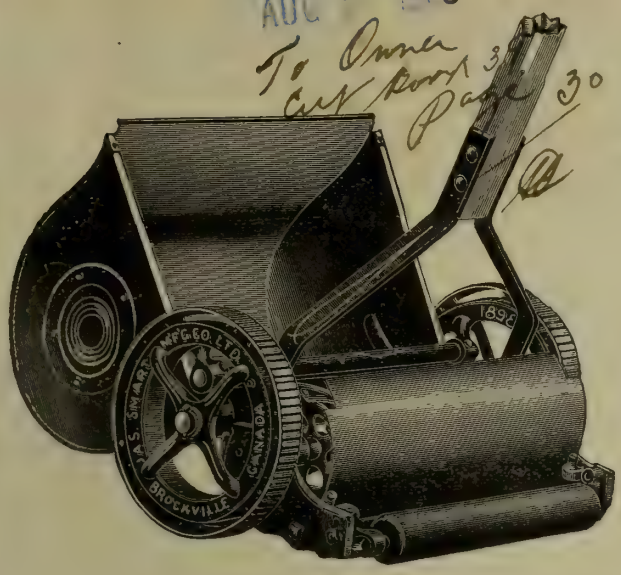


Special Stropper for Star Razor.

EXCELLENCE IN BUILDING.

The new building which is being erected by Lewis Bros., of Montreal, on Bleury street near the corner of Craig street, has been decided upon by the fire insurance companies of Montreal as being the standard of a fireproof building. This speaks well for the firm, being the first Eastern Canadian company to receive such distinction from the insurance companies.

RETURNED AUG 5
To Owner
Cut from Page 30



LAWN MOWERS

For prompt delivery and best value, order the **"Brockville"** line direct from the makers.

Full stocks at BROCKVILLE and WINNIPEG. Immediate shipment guaranteed.

ALL VARIETIES

With or without **Grass Boxes.**
With or without **Ball Bearings.**
High Wheels, Low Wheels.
Three Blades, Four Blades.

Prices to suit all classes of purchasers
Perfect working of every machine guaranteed

THE JAMES SMART MFG. CO. LIMITED

Home, Courlay and Kincaid Streets
BROCKVILLE, Ont.

Hardware Manufacturers

131 Bannatyne Avenue East
WINNIPEG, Man.

— ALUMINUM —
THREE-GALLON TEA POT

YOU WANT THE BEST



ALSO MADE IN
6, 9 AND 12 CUP SIZES

WE MAKE THE BEST

Aluminum utensils take and retain the heat better than any other kind.

Aluminum does not rust, no danger of poison, does not taste the coffee, and can be set on the stove without any detrimental effects to either the coffee or the pot.

MADE BY

CANADIAN ALUMINUM WORKS, LIMITED

Catalogue on Application.

CHAMBLY CANTON, QUE.

SOL-A-RINE

The Great Polish

For all planished metals, Liquid Form, Screw Top Tins. No stock complete without it. What the trade say: "Sells better than any other."

Send for Circular

H. F. FALKINER,
80 George St., TORONTO

OAKEY'S The original and only Genuine Preparation for Cleaning Cutlery. 6d. and 1s. Canisters

'WELLINGTON'
KNIFE POLISH

JOHN OAKEY & SONS, LIMITED
MANUFACTURERS OF
Emery, Black Lead, Emery, Glass and Flint Cloths and Papers, etc.
Wellington Mills, London, England
Agent:
JOHN FORMAN, 644 Craig Street
MONTREAL.

GOOD WEARING



VERY CHEAP

Rush Orders Rushed

We have crated for rush orders
Flour Pots, Fern Pans, Saucers, Etc.
No. 1 Assortment, $5.10. No. 2 Assortment, $4.15.
The FOSTER POTTERY CO.
HAMILTON. Limited

Cooper's Improved Patent One-Piece Stovepipe Elbows



The Heaviest and Best Elbow on the market. Measures 23 inches long at the back.

Send in for sample dozen.
Polished or Common.

E. T. WRIGHT & CO.
Manufacturers and Sole Patentees,
Hamilton and Montreal

STOVES AND TINWARE.

STOVE STORAGE WAREHOUSES.

FIRES that have been burning to provide a comfortable temperature have now been extinguished, and wherever stoves have been used for heating purposes the desire to remove them to secure additional space in apartments during the Summer season will be occasion for the stove dealer to derive a profit, says the Metal Worker. In any case the stove must be moved to some point for storage purposes, whether in some part of the building of the owner or in a loft which the stove dealer has secured for the purpose. It has been the custom of stove dealers in some sections for many years to call in the Spring of the year for stoves, take them down, pack them up and store them in some safe place until needed again in the Fall. This secures the opportunity for making such repairs as the stove may need and putting it into condition for use in the Fall. This work also affords the opportunity of supplying new pipe when necessary, new stove parts, new mica and, not infrequently, other repairs to the building or kitchen equipment that would not otherwise be secured.

Such work can be done with advantage by a reliable man at odd times if a little judgment is used in making appointments with his different customers. In some instances the dealer has a duplicate receipt, on which he enumerates all of the different stoves, pipe, coal hods and other fixtures which he takes away with the stove. It is the custom of some to provide large tags, which are attached to each separate piece of stove, pipe or equipment. Provision is made on these cards to enter the order for grates, mica or other repairs that are found necessary. In order to prevent confusion in the Fall, when the stoves must be returned to their owners, carefully polished and in good order, each part must be tagged, and negligence in carefully looking after this part of the work may cause much annoyance and inconvenience to all concerned. Those stove dealers who have warehouse space to spare will find it profitable to begin at once to clear it up in order to make space for the Summer boarders. They should also prepare their tags and storage receipts so that everything will be in readiness, and then an advertisement in the local paper or the distribution of a properly prepared circular will be sure to bring orders not only for the storage of stoves but for much other profitable trade.

THE DISPLAY OF STOVES.

Displaying stoves is not given the proper amount of attention in some localities. Oftentimes a stove is put on the floor with parts of the nickel trimmings missing, or the shelf not properly fastened in its place. In these days of keen competition customers ask, and in many cases demand, that goods for sale should be displayed in the most attractive manner. Merchants who are progressive keep their stoves and ranges well polished, have the nickel parts securely fastened and the grates, linings, etc., intact, so that all parts of the stove can be readily shown. Often the sale of an expensive stove is lost because a salesman has taken out a pair of grates or set of bricks to please a particular customer.

TIN IN THE TRANSVAAL.

RECENTLY reported discoveries of tin in the Transvaal raise hopes that a new source of supply may be opened up, says the Iron and Steel Trades Journal. Tin, as everyone knows, was indirectly the cause of the Roman invasion of Britain. The Phoenicians voyaged to Cornwall to obtain tin, and the Romans came after them and conquered the country. The Cornish tin-mining industry has been in existence for two thousand years, and occasionally in the Dolcoath and other old mines rich ground is broken into in the deep levels and periods of prosperity set in, followed by lean years until rich ore is found again. The Cornish mines in the best of times provide for but a small portion of our requirements, and the world depends on the Malay Peninsula and Australasia for supplies. America, rich as she is in every other metal, has to depend on the Old World and Australasia for her tin. If, then, workable deposits of tin have been found in the Transvaal, the discovery is of the greatest importance to the metal trade. The locality of the principal find is on the Swazieland border, and a considerable length of lode matter has been proved 60 ft. in width, and carrying 1½ to 4 per cent. of metallic tin. Rich patches are described as containing 25 per cent. of tin. That these are paying values is shown by the results obtained in Tasmania from deposits containing a smaller percentage of metal. The Mount Bischoff Mine in Tasmania has in 30 years distributed among its shareholders £1,400,000 in dividends (on a capital of £60,000), and the average contents of the ore milled over this period have been under 1 1-3 per cent. of tin. Other discoveries of lode tin and also alluvial are reported at a place about ten miles from Pretoria.

CONTRACTS SECURED.

The James Smart Mfg. Co., Brockville, have been awarded the contracts to install heating and ventilating systems in the public school and Episcopal Church at Carp, Ont. The former will require two, and the latter one, "Kelsey" warm-air generators.

BUSINESS CHANGE AT BRANTFORD.

Ker & Goodwin, Brantford, have disposed of their Colborne street store to George A. Elliot, jr., who will turn it into up-to-date showrooms for stoves and other lines. The new store will not be opened until the Fall.

STEEL TROUGHS



Hardware Dealers

will find our Hog and Water Troughs well worth handling. They are the result of 5 years' experimenting, and we now claim to have the best proposition in hog, whey and frost-proof troughs on the market. Being manufactured of specially imported Stamped Heavy Steel, they are practically indestructible. Our terms to dealers are very liberal, and we give specific territory besides advertising and literature. Let us hear from you as territory is going fast.

THE STEEL TROUGH & MACHINE CO., - TWEED, ONT.

WORK AND PRICES RIGHT
GALVANIZING
ONT.
WIND ENGINE & PUMP CO.
TORONTO, ONT. LIMITED.

OUR AGENTS

MESSRS. WAYLAND, WILLIAMS & DADSON

28 BOARD OF TRADE BUILDINGS, MONTREAL

are carrying a stock of our goods and will be pleased to have your inquiries for **Hex. and Square Cap Screws, Square Head Set Screws, Bright Washers,** and **Bright and finished Hex. Nuts.** The quality is right, and we can give you good deliveries.

ACME LATHE & PRODUCTS CO., LTD.

MANCHESTER.

WHAT ARE YOU DOING

about the labor-saving, quick-working

METALLIC ASH-SIFTER

Do you know that the ***Metallic Ash-Sifter*** will last five times as long as the wooden sifter? We employ ***Our Patent Double Lock Fold*** for the bottom wires which gives them ***strength.*** We have a ***Patent Wire Bale*** for use with sifter. WRITE FOR ILLUSTRATED CIRCULAR AND PRICE.

C. M. CUTTS & CO., Sole Makers, **Toronto Junction, Ont.**

RETURNED MAY 16 1905 to Gurney cut Book 50 Page 53 W.S.E.



The 50-foot Awning we made for Ryrie Bros., Toronto

Our Roller Awnings

have a great many good points in their favor, some of which are:

They wear well.
They are light to operate.
They are cleanly.
They do not afford nesting places for sparrows.
Their life is 50% longer than loose pulley awnings.
Their cost is very moderate.
They can be operated in one length of 50 feet, if so desired.

Send us measurements for price on yours. We make only the best, but price is very moderate.

WM. BARTLETT & SON, 16 Adelaide St., West, Toronto. ***PHONE MAIN 2828***



No matter how good a salesman, it is always difficult, unsatisfactory and ultimately unprofitable to sell a poor article.

The reputation of your establishment is made good or bad by the way the goods you recommend and sell, turn out. Quality is back of every permanent success. The

OXFORD CHANCELLOR RANGE

has established a reputation on the high quality of the materials used, the excellence of the workmanship and the efficiency of the range.

The reputation of the Oxford Chancellor Range does half the selling---your half is easy.

WRITE FOR PARTICULARS

THE GURNEY FOUNDRY CO., LIMITED

TORONTO——WINNIPEG——VANCOUVER

THE GURNEY-MASSEY CO., LIMITED, MONTREAL.
THE GURNEY STANDARD METAL CO., LIMITED, CALGARY, ALTA.

BUILDING AND CONSTRUCTION

STEEL-FRAME BUILDINGS.

CRITICS of the modern "sky-scrapers," with their frowning steel frames, have predicted that these lofty buildings will be short-lived, and that they are all destined to crumble away. The steel skeletons of these structures are mostly hidden from observation, and no one can tell whether they are intact or rusting away, but experts conclude from examination of the frame of one that has recently been demolished in New York, that such fears as those mentioned are groundless. In this building, which had stood four years, the only rust in the frame was that acquired during construction, and it is concluded that the structure would have stood, if unmolested, as long as a brick or stone edifice under the same conditions.

CONCRETE WAREHOUSE.

The brick and reinforced concrete warehouse recently built in Toronto, for Brown Bros., cost practically the same figure as for slow-burning mill construction. The building is 192 feet by 42 feet in plan, with storeys 10 feet, 15 feet, 14 feet 6 inches, 13 feet 6 inches, and 13 feet 6 inches high from basement up. The floors are designed to carry 300 pounds per square foot, and the columns are on 16-foot by 12-foot centres. The columns are reinforced by steel rods at the corners, with a wrapping of expanded metal like the hoops of other systems of construction. The columns are connected by concrete girders reinforced with six rods near their bottom surface, some of these rods being bent upwards at the ends. Instead of stirrups or loops, the girders have sheets of expanded metal at their ends. The floor-beams are of similar construction, but smaller.

BUILDING NOTES.

Fred Wright, Brantford, is to build a $2,000 residence.

M. B. Vail is to erect a $5,000 block at Amherst, N.S.

The C.P.R. are to erect a $26,000 station at Revelstoke.

R. H. Cook is building a $3,000 residence at Arcola, Assa.

D. Campbell is to erect an apartment house at Winnipeg Beach.

The Bank of Commerce is erecting a new building at Strathroy.

The Salvation Army propose erecting a $9,000 barracks at Galt.

J. Gonginnis, Hamilton, is to build a $2,000 residence on Sanford avenue.

A new $10,000 school and $3,000 church are proposed in Carlyle, Man.

J. J. Walkley is to erect a $15,000 building on St. Paul street, Quebec.

M. & S. Epstein, Hamilton, are having a new store erected, the cost to be $7,500.

New dwellings to cost $150,000 are being erected in St. Thomas, Ont., this Summer.

St. John's Episcopal congregation, St. Thomas, Ont., are to erect a $15,000 church.

The Southwestern Traction Co. intend enlarging their power house at Chelsea Green, London.

John Leslie, Winnipeg, has let contracts for a six-storey building on Main street, Winnipeg.

Muirhead & Co.'s new elevators at Winnipeg are nearing completion. The plant will cost $25,000.

Mrs. Letang Pilot Mound, Man., has given contracts for the erection of a business block in that town.

The Roman Catholics of St. Thomas, Ont., are to spend $30,000 on remodelling their parish residence.

Hamilton Roman Catholics are to erect a $9,000 church at the corner of Sherman and Barton streets.

Work has been commenced on the new four-storey warehouse for Harry Leadley, on Ross street, Winnipeg.

The C.P.R. are to erect four large new depots in Manitoba this Summer at Killarney, Neepawa, Crystal City and Boissevain.

Two storeys are being added to the Gurney-Tilden Co.'s warehouse in Winnipeg, which will make the structure six storeys and a basement.

S. R. Ritchie is erecting six cottages at Winnipeg Beach, and has secured the contract for the new St. Peter's Church at Winnipeg, to cost $7,000.

The plans for the new Y.M.C.A. building, at Orillia, call for a solid brick structure, three storeys high, 50 x 100 ft., to be erected this season.

Bulman Bros., Winnipeg, are having plans prepared for a seven-storey block on the site of the block which was destroyed by fire last Autumn. It will cost $85,000.

H. T. Andrews, Orillia, is erecting a metal clad building, 16 x 40 ft., two storys high and will move into the new quarters about July 1st, and occupy it as a tinshop.

Amongst the new buildings being erected at Kensington, P.E.I., are a Methodist parsonage, a cottage for Wm. McLeod, and residences for J. L. Perry and Dr. Gillis.

The McIntyre block, Winnipeg's oldest and most expensive business location, is going to have four more storeys added to it, thus making it one of the largest buildings in Canada.

The contract for the construction of a warehouse in Vancouver for Messrs. Robert Kelly and Frank Burnett, has been awarded to Mr. J. M. McLuckie, the price being about $35,000.

W. Wark will build three brick houses on King William street, Hamilton, to cost $6,000, and D. Kelly will erect four brick houses at the corner of Main and Wentworth streets, to cost $8,000.

Permits have been issued in Vancouver for over $120,000 worth of new buildings. The larger blocks included in this number are Pilkington Bros., Water street, $10,000; A. St. G. Hamersley, Pender street, $2,000; Sam Kee & Co., Powell street, $10,500; W. H. Gallagher, Pender street, $7,000. Ross & Howard, Water street, $6,000; G. Thomas, Dunsmuir street, $2,500; J. C. Keith, Granville street, $2,000; G. F. Risteen, Robson street, $3,500; Mrs. R. Dumaresq, Fourth avenue, $300; W. W. Griffiths, Granville street, $3,000; Macaulay & Nicoll, Granville street, $8,000; T. A. Fee, Granville street, $8,000.

MONTREAL BUILDING PERMITS.

Dr. E. Virolle, dwelling, 116 Laprairie street, $4,500.

H. C. Ness, dwellings, 713 East Craig street, $1,500.

P. Lalonde, dwellings, 201 Chateauguay street, $3,000.

F. Senecal, dwellings, Gauthier street, Papineau ward, $1,800.

H. Leduc, dwellings, Mount Royal, Duvernay ward, $6,500.

C. Simard, dwellings, Joliette street, Hochelaga ward, $1,700.

Joseph L. Gaudet, stable, 534 Amherst street, $5,500.

F. Lange, dwellings, Cuvillier street, Hochelaga ward, $2,000.

Davies, Limited, factory, Mill street, St. Ann's ward, $70,000.

D. Demers, dwellings, Cuvillier street, Hochelaga ward, $3,000.

Miss Booth, alterations to dwellings, 25 University street, $7,000.

E. Thouin, dwellings. Montgomery street, Hochelaga ward, $1,800.

O. Renaud, dwellings, St. Hubert street, St. Denis ward, $2,500.

C. Renaud, dwellings, Chambord street, St. Denis ward, $1,800.

J. Johnston, dwellings, St. Hypolite street, St. Louis ward, $5,066.

L. Carbeil, dwellings, Marie Anne street, Duvernay ward, $50,000.

H. Chatrand, dwellings, Rivard street, St. Jean Baptiste ward, $2,500.

Mrs. A. Gibeault, dwellings, Desery street, Hochelaga ward, $4,100.

D. Chartier, dwellings, Chambord street, St. Denis ward, $2,800.

Mrs. H. Patenaude, dwellings, Mentana street, Duvernay ward, $2,500.

Mrs. M. A. McEvoy, dwellings, City Hall avenue, St. Louis ward, $6,000.

J. B. Coulombe, dwellings, Boyer street, St. Jean Baptiste ward, $3,500.

Masson estate, alterations to dwelling and store, 54 and 54a Beaver Hall hill, $1,900.

Charles Brewster, alterations to dwellings, 9 to 11 St. Edward's street, $8,000.

Estate of L. Tourville, dwellings, Sherbrooke street, St. Lawrence ward, $90,000.

Alexandra Hospital, medical building, Charron street, St. Ann's and St. Gabriel's wards, $25,000.

TORONTO BUILDING PERMITS.

Permits were issued during the week ending May 29th, for thirty-two dwellings of the cheaper class, mostly roughcast with brick fronts. Mr. G. E. Ramson will build two apartment houses on the east side of Jarvis street near Wilton avenue, costing $40,000, and the American Chicle Co. is erecting a large brick factory, warehouse and stable on the northwest corner of Dickens and

"DOMINION BRAND"
TARRED FELT
(THE OLD RELIABLE QUICK SELLER)

ROOFING PITCH
COAL - TAR

WHEN YOUR TRADE DEMANDS **THE BEST** ROOFING MATERIALS

CONSULT THE WELL-KNOWN MANUFACTURERS

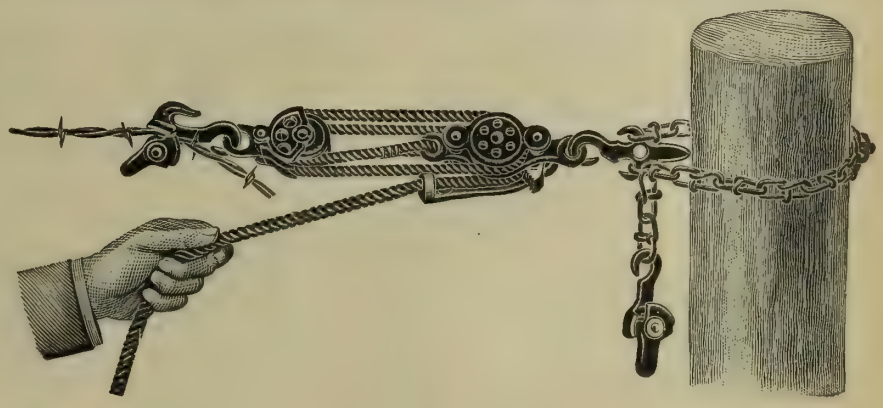
LOCKERBY & McCOMB, 65 Shannon St., Montreal

THIS IS THE
OLD STAND-BY

None better on the market unless it is the Triumph.

If your Jobber cannot supply, write us for prices.

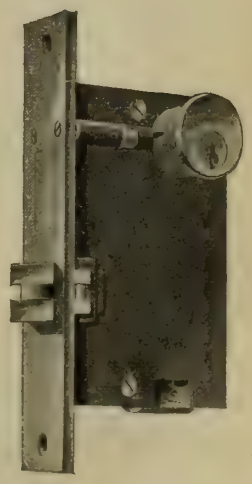
NO. 233.—WILCOX TACKLE-BLOCK WIRE STRETCHER



WILCOX MFG. CO. OF ONTARIO, Limited, London, Ont.

REASONS FOR
Gurney Cylinder Locks

THE NEED	THE DEMAND	THE CALL
for Locks that were good once, good always	for Locks that were stable and salable	for Locks "Made in Canada," Guaranteed



THE GURNEY, TILDEN CO., Limited
HAMILTON

BRANCHES:
Winnipeg—Tilden, Gurney & Co., Limited
Vancouver—The Gurney, Tilden Co., Limited

AGENCIES
Montreal—Nicoll & Barr, 85 St. Peter St.
St. John—Nicoll & Barr, 38 Dock St.

Thackeray streets, costing $35,000. Other permits issued were as follows:

John H. Mitchell, factory, 240 Clinton street.

G. H. Bowen, store, 989 Bloor street, west.

E. Housey & Co., building, 5 Bathurst street.

Dr. F. Tracy, dwelling, Walmer road, $4,000.

J. G. Dale, dwelling, Nanton crescent, $3,000.

Mrs. Isabella Wilson, dwelling, Emerson avenue.

Alexander McKay, dwelling, Rusholme road, $2,000.

Albert R. Wright, store, west side of Avenue road.

R. West, two pairs dwellings, Dundas street, $5,000.

Wm. Woods, three dwellings, College street, $6,000.

George Funson, residence, Palmerston avenue, $4,000.

Symons & Rae, residence, Albany avenue, $2,500.

Chas. W. Coleman, dwelling, Brock avenue, $1,400.

Samuel Millsop, dwelling, Simpson avenue, $1,600.

Chas. Boyce, dwelling, 211 St. Helens avenue, $1,200.

R. B. Fox, one pair dwellings, Pape avenue, $2,800.

J. H. Wickson, dwelling, Macpherson avenue, $2,500.

King Bros., one pair dwellings, Davenport road, $4,000.

Arthur H. Gilley, dwelling, Westmoreland avenue, $1,300.

A. A. Barthelmes, one pair dwellings, Wells street, $6,000.

H. Sneath, store, corner of Sorauren and Garden avenues.

A. Parent, one pair dwellings, De Grassi street, $2,500.

Robt. Wright, one pair dwellings, McDonnell avenue, $3,000.

Cooper Bros., one pair dwellings, St. Clarens avenue, $1,500.

H. Sneath, store, corner Sorauren and Garden avenues, $4,000.

Wm. G. Burns, one pair dwellings, Rusholme road, $6,000.

Pears & Davidge, one pair dwellings, Macpherson ave., $6,000.

Joseph Lee, two dwellings, 212 and 214 Smith street, $1,800.

James Alison, alterations to dwelling, 52 Murray street, $1,500.

Isaac McHeneary, one pair dwellings, Gladstone avenue, $5,000.

Joseph Montgomery, one pair dwellings, Dupont street, $5,000.

The Toronto Furnace & Crematory Co., foundry, Golden avenue.

Charles Neate, one pair dwellings, 520 and 522 Clinton street, $3,000.

Mrs. Hortense Beaton, one pair dwellings, Wellesley street, $2,500.

Hans J. Caulfield, dwelling, corner Gordon and Dale avenues, $5,000.

Chas. Bulley, two pair dwellings, 485 to 491 Broadview avenue, $10,000.

Wm. Pakenham, residence, corner Spadina road and Bernard avenue, $6,000.

Newton, McCullough & P. McGowan, two pair dwellings, Ossington avenue, $8,000.

Toronto Foundry Co., addition to foundry, Liberty street and Jefferson avenue.

John E. Russell, two pairs dwellings, corner Logan avenue and Natalie street, $4,000.

The Hanover Portland Cement Co., Limited

HANOVER, ONTARIO

Manufacturers of the celebrated **"Saugeen Brand"** OF PORTLAND CEMENT.

Prices on application.

"THE EMLYN" SAW BENCH

Made in 6 sizes. Best value obtainable. Specially designed for export With or without "Emlyn" Patent Guard. Sole maker—

CHARLES D. PHILLIPS,

Cables— "Machinery," Newport. Emlyn Engineering Works NEWPORT, MON., ENGLAND

NEWMAN'S PATENT INVINCIBLE FLOOR SPRINGS

Combine all the qualities desirable in a Door Closer. They work silently and effectually, and never get out of order. In use in many of the public buildings throughout Great Britain and the Colonies.

MADE SOLELY BY

W. NEWMAN & SONS, Birmingham.

USE

"HERCULES" BRAND PORTLAND CEMENT

Manufactured by

THE GREY & BRUCE PORTLAND CEMENT CO.

OWEN SOUND

J. McLAUCHLAN, President.

A PERMANENT and Handsome Roof.



Arrow Brand Asphalt Ready Roofing

Will bring you profitable trade and satisfied customers. Comes in rolls ready to lay, all ready covered with gravel. Requires no experience to lay, and lasts for years without further attention.

A. C. JENKING & CO, Sole Agents,

Room 215 Coristine Building, - MONTREAL.

Sole agents being appointed in each district. Write to-day.

O-SO-EZY

Gives Life and Durability to Hardwood Floors (new or old).

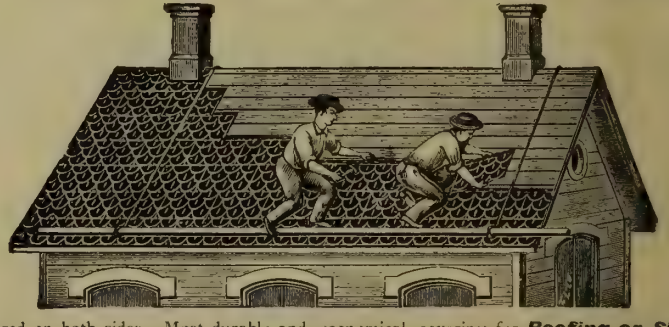
PRICE—IN BBL. LOTS $1 00 PER GAL. SINGLE GALS., $1.25.

DEALERS SELL TRY IT. For further particulars write

O-So-Ezy Mfg. Co., Limited. 205 St. James St, Montreal

PEDLAR'S STEEL SIDING AND SHINGLES

At $2.00 and $2.55 per 100 Square Feet.



Painted red on both sides. Most durable and economical covering for ***Roofing or Siding for Residences, Houses, Barns, Elevators, Stores, Churches, Poultry Houses, Cribs, etc.*** Easier to lay and will last longer than any other covering. Cheaper than wood shingles or slate. No experience necessary. A hammer and snips are the only tools required. It is semi-hardened, high grade steel. ***Brick or Stone Siding at $2.00 per 100 Square Feet. Pedlar's Patent Steel Shingles at $2.55 per 100 Square Feet.*** Also ***Corrugated Iron, Painted or Galvanized,*** in sheets 96 inches long. ***Beaded and Embossed Ceilings. V Crimped Roofing.*** 2,000 designs of Roofing, Siding and Ceilings in all grades. Thousands of buildings throughout the Dominion covered with our Sheet Metal Goods, making them

Fire, Water and Lightning Proof.

Send in your order for as many squares (10 x 10 feet) as you require to cover your new or old building. The very best roofing for this climate. We can supply ***Eave Trough, all sizes, Corrugated or Plain Round, Conductor Pipes, Shoes, Elbows, Spikes, Tubes.***

All goods shipped day after order is received. We are the largest concern of the kind under the British flag. Established 1861. Capital invested $150,000.00.

THE PEDLAR PEOPLE, OSHAWA, ONTARIO, CANADA.

MONTREAL, QUE.	OTTAWA	TORONTO	CALGARY, ALTA.	VANCOUVER, B.C.
767 Craig St.	423 Sussex St.	50 Yonge St.	201 7th Ave. E.	615 Pender St.

WRITE YOUR NEAREST OFFICE.

Toronto Rubber Roofing

WEATHER-PROOF,
ROT-PROOF,
FIRE-PROOF.

Send for Samples

A VERY SALABLE ARTICLE

Best Prices to Trade

All material complete in each Roll.

LUXFER PRISM CO., LTD., 100 KING ST. W., TORONTO.

The Finest on Earth

When seeking quality in saws the intelligent mechanic need go no further than the Atkins high-grade Silver Steel Hand Saws. In material, temper, finish, and cutting qualities they are perfect.

The Atkins Silver Steel Hand Saws with Perfection handle sell at sight. Dealers everywhere find them a good investment.

Write for catalog and prices.



ATKINS ALWAYS AHEAD

E.C. ATKINS & CO.

LEADING SAW MANUFACTURERS

INDIANAPOLIS, IND., U.S.A.

Canadian Branch
56 KING STREET EAST,
TORONTO, CAN.

"LET YOUR LIGHT SHINE!"

WORK UP THIS TRADE; THAT IS, THE TRADE OF

MAXIMUM LIGHT GLASS

It has no rival anywhere. Superior to the common corrugated or prismatic glass. The sworn enemy of darkness. No corner escapes it. But are **you** pushing **MAXimum LIGHT GLASS?** That's another question. Well, we want you to know that the price will not keep you from stocking up. **MAXimum LIGHT GLASS** is simply C-H-E-A-P, and there's a profit.

We have a booklet and sample for **you.**

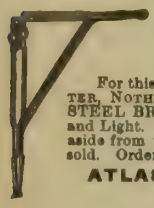
Sole Canadian Agents:

THE HOBBS MANUFACTURING CO., Limited, LONDON, ONT.

Glass Importers and Manufacturers.

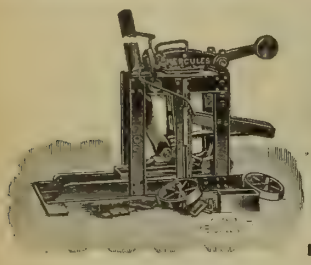
STREET PAVING and SIDEWALKS a SPECIALTY

SILICA BARYTIC STONE CO.
OF ONTARIO Limited
Head Office:
Ingersoll, Ontario.
Walter Mills, General Manager
Ask for quotations for Septic Tanks.
Water Proof Floors for Malt Houses, Breweries, Slaughter Houses Cheese Factories, Cellar, Stable Floors, etc



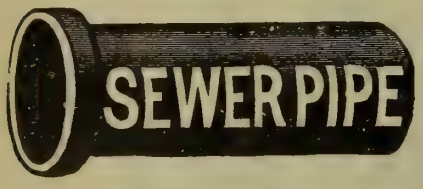
Will Hold Up a Shelf!
That's what a shelf bracket is for.
For this purpose there can be NOTHING BETTER, NOTHING CHEAPER than the BRADLEY STEEL BRACKET. It is well Japanned, Strong and Light. The saving in freight is a good profit, aside from the lower price at which the goods are sold. Order direct or through your jobber.
ATLAS MFG. CO.,
New Haven, Conn., U.S.A

Bricks! Bricks! Bricks!



If you know o anyone intending to make bricks, induce him to use one of our
Hercules Handpower Press
IT WILL PAY YOU
No previous experience needed.
BOSSON BROS., Engineers
P. O. Box 198 BRUSSELS (Belgium)
Cable Address "FORWARD BRUSSELS."
Indents through European merchants.

...FULL STOCK...
Salt Glazed Vitrified



Double Strength Culvert Pipe a Specialty.
THE CANADIAN SEWER PIPE CO.
HAMILTON, ONT. TORONTO, ONT.
ST. JOHNS, QUE.

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CONTRACTS
mean dollars for the pockets of contractors. The weekly reports in the
CANADIAN CONTRACT RECORD
Tell where contracts may be had
$2. per year buys them. Address
THE CONTRACT RECORD
TORONTO, MONTREAL, WINNIPEG and VANCOUVER.

INDUSTRIAL GOSSIP

HARDWARE AND METAL would be pleased to receive from any authoritative source industrial news of any sort, the formation or incorporation of companies, establishment or enlargement of mills, factories, foundries or other works, railway or mining news. All correspondence will be treated as confidential when desired.

SOME time ago Professor Haanel, Superintendent of Mines, Ottawa, with others, went to Europe to investigate iron smelting by electricity, and a valuable report has been printed dealing with their observations. Professor Haanel has also induced the Dominion Government to set apart a sum of $15,000 to make a practical test in Ontario. Mr. Clergue has offered the department a building and free, power for electricity for four months, and as they have a splendid outfit of machine shops and skilled labor, all available at reasonable cost, it has been decided to experiment at the "Soo," where ore from various localities can be assembled cheaply and quickly. Dr. Harault, of France, who has had extensive experience in Europe in smelting iron by electricity, is to be in charge and make the test. Experiments will also be made in treating the nickel ores of Sudbury locality, as there are quantities of the nickel mattes at the "Soo." The plant will not be in operation for a couple of months, as the furnace is not fully designed vet, and the electroids have to be imported from Sweden, nothing of the kind being available here. In a country as scarce of fuel as Ontario is, and dotted with water-powers, where cheap electricty can be produced, there seems to be a great opening for electric smelting. We have an enormous quantity of iron deposits in Ontario of different values. In the past some of these were classed as having too much sulphur, some too much phosphorus, or perhaps some other objectionable materials, while, again, some deposits are so situated that fuel costs too much to bring to the ore. With electric smelting a success and power transmission so favorable, almost every deposit in Ontario of a reasonable value can be worked.

The Pneumatic Horse Collar Co. may locate at Brantford.

Grundy Brothers stove foundry at Strathroy is being enlarged.

The Canadian Northern is now running trains to Battleford, Sask.

Cameron, Dunn & Co.'s new handle factory at Strathroy is completed.

The Dyment-Baker lumber factory, burned recently, will be rebuilt at London.

The American Chicle Co. are to erect a $35,000 factory and warehouse in Toronto.

East Toronto is offering a free site and other inducements to the Maestro Piano Co.

The C.P.R. will construct lines east and west from Saskatoon this Summer for colonization purposes.

Clinton ratepayers have decided to loan $6,000 to the Clinton Knitting Co., who will build a new factory.

The Dymond-Somerville Upholstering Co., Strathroy, have doubled their capital and will enlarge their plant.

The Dominion Suspender Co.'s factory at Niagara Falls is to be enlarged by an addition 30x85 feet, two storeys high.

D. Hibner & Co., Listowel, will build a $14,000 addition to their chair factory. A fixed assessment has been granted them by the town.

Only 95 of the ratepayers of the town of Orillia voted against the by-law to give the James Bay Railway a bonus of $30,000 and the measure was adopted by 500 majority.

The Hunter Blast Furnace Co., of Duluth, is starting operations at Port Arthur. As soon as pig iron is produced a number of new industries will be established.

The Chatham, Wallaceburg & Lake Erie Electric Railway has chosen W. N. Warburton as its general manager. Construction will be proceeded with at once, and the line completed in four months.

Officials of the Dominion Iron & Steel Co. say that the steel rail plant at Sydney will be producing rails inside of another month. Within a year the full capacity of 1,000 tons per day will be turned out.

Work has commenced on the erection of the new 3,000-barrels per day flour mill at Keewatin. Storage elevators for 500,000 bushels of grain will also be built by the Keewatin Flour Mills Co.

The Eckardt Casket Co., and the Eckardt Silver Plate Co. will remove from Toronto to Brampton in the near future. The building of an electric railway and the development of a large electric power at Erindale, about twelve miles from Brampton, will result in the latter town's being able to offer exceptional advantages in the way of cheap power and lighting to locate there.

A steel bridge now under construction over the St. Lawrence River at Quebec is a remarkable structure. The weight of this bridge will be about 35,000 tons. Its span of 1,800 feet crosses the entire St. Lawrence River at such a height as to not interfere with navigation and will be the longest in the world, the Forth Bridge in Scotland being 1,710 feet long, the Brooklyn Bridge 1,680 feet, and the new East River Bridge in New York 1,600 feet. There have been manufactured by the Phoenix Bridge Company, Phoenixville, Pa., to date, and partly shipped to the site of the bridge, about 10,000 tons of steel. It will take about two years more to complete the structure. The masonry piers are entirely finished, and the temporary false works, of steel, are now in place on the south shore, upon which erection will begin at the opening of Spring this year. The 1,800 feet of

steel-bridge work between the piers will be erected without any false work in the river. The bridge is to be 80 feet wide over all, carrying a double-track railroad, a double-track trolley and highway, and two sidewalks. Many novel features have been adopted in the design and manufacture of this bridge. The total length of channel span, 1,800 feet; ship clear headway, 150 feet above higher tide; height of cantilever towers, 360 feet above the river.

Companies Incorporated.

Blackford Oil & Gas Co., Limited, Windsor, share capital, 30,000; purpose, to develop oil property. The directors are: F. B. Preston, W. F. McCorkle, W. A. Spitzley, J. H. Brogan, and E. D. Preston, all of Detroit.

Selby & Youlden, Limited, Kingston, share capital $50,000; purpose, to manufacture boilers, engines, machinery, etc. The directors are: C. Selby, H. Youlden, S. J. Dainty, M. F. Thompson, and A. Orr, all of Kingston.

Empire Gas & Oil Co., Limited, Windsor, share capital $40,000; purpose, to develop oil properties. The directors are: V. C. Frye, A. G. Gulven, J. W. Videau, C. A. Buhrer, F. D. Andres, E. Bond, and T. J. Quinn, all of Detroit.

Northern Varnish Co., Limited, Owen Sound, share capital $40,000; purpose, to manufacture varnish, paints, etc. The directors are: J. S. Parmenter, A. McDonald, J. J. Best, W. J. Camsell, and G. W. Gurnett, all of Owen Sound.

Maple Leaf Automobile & Electrical Mfg. Co., Limited, London, share capital $50,000; purpose, to manufacture automobiles and electrical appliances. The directors are: J. O. Weldon, G. H. Rapson, D. Fergusin, H. S. Albertson, and W. Barton, all of London.

Pease Heating Co., Limited, Toronto, share capital $40,000; purpose, to manufacture and install heating and plumbing apparatus. The directors are: D. Millar, A. M. Bond, J. M. Bell, D. W Stark, R. B. McKinnon, J. L. Ross, and F. W. Johnson, all of Toronto.

Canadian Fence Mfg. Co., Limited, Woodstock, share capital $250,000; purpose, to manufacture and sell wire fences, etc. The directors are C. A. Brink, N. Stickney, and G. Bragg, of West Oxford; J. B. Murray, of West Zorra, and T. H. Blachford, of East Oxford.

Canadian Shovel & Tool Co., Limited, Hamilton, share capital $150,000; purpose, to manufacture shovels and other tools. The directors are J. C. McCarty, G. B. McCarty, of New York; C. H. Holton, of Easton, Pa.; F. Skelton, of Wainsburg, Pa., and W. A. Holton, of Hamilton.

New Liskeard and Northern Ontario Mining and Developing Co., Limited, New Liskeard, share capital $25,000, purpose, to mine and mill minerals. The directors are: J. Cox, J. H. O'Brien, J. O. Margueratt, J. C. Moss, F. W. Haynes, H. Thompson, and E. Monahan, all of New Liskeard.

Gurney Oxford Stove & Furnace Co., Limited, Toronto, share capital $40,000; purpose, to manufacture and deal in metals, and carry on the business now carried on by the Gurney Oxford Stove & Furnace Co., Toronto. The directors are E. Gurney, W. C. Gurney, E. H. Gurney, W. H. Carrick, and F. F. Skinner, all of Toronto.

Pedlar Talks

"KEEPING EVERLASTINGLY AT IT BRINGS SUCCESS."

No. 7. OSHAWA, ONT. JUNE 3, 1905

THE REASON EXPLAINED

WHY

Do you seek the reason why wooden lath is disappearing? Find the answer in the Fire-proof Qualities of **PERFECT METAL LATH.** Do you seek the reason why builders are using **PERFECT METAL LATH?** Find the answer in its **Cheapness.** Do you seek the reason why we can turn out 10,000 sq. yds. daily? Find the answer in the Most Modern Machinery. Do you seek the reason why we can sell **PERFECT METAL LATH** at 10c. per sq. yd. (No. 26 gauge), 13c. per sq. yd. (No. 24 gauge), when other dealers with a much inferior metal lath ask 20c. and thereabouts? Find the answer in "Keeping Everlastingly at it Brings Down the Price."

HOW

We saw that **PERFECT METAL LATH** was a necessity, so we commenced its manufacture. The fact that it was metal made it the enemy of fire, to start with. The fact that we got the key positive, kept up the pace. The fact that we constructed the mesh on a scientific basis held the lead, and the fact that **PERFECT METAL LATH** was sanitary—**unlike** wooden lath—rounded the turn in advance and **Won the Race.** Any hardware dealer can profit by this victory—these 10,000 sq. yds. daily, this 10c. per sq. yd. If you are a live dealer you will get after all the builders and contractors **you** know. You have to **get to make.** We'll help you. Send for sample and terms, and we'll talk a deal with you.

The Pedlar People

of OSHAWA, ONT.

MONTREAL—767 Craig St. OTTAWA—423 Sussex St. TORONTO—50 Yonge St.
VANCOUVER, B.C.—615 Pender St. SYDNEY, AUSTRALIA—189 Clarence St.
CAPE TOWN, S.A.—141 Longmarket St.

WRITE YOUR NEAREST OFFICE.

IT IS A FACT

That we lead in our lines. You believe **quality** counts, and so all sensible people agree. **The increase in our trade is a living testimony to the high-grade stock which we manufacture.**

ASK FOR OUR QUOTATIONS—THEY WILL INTEREST YOU.

Ready-Roofing, Sheathing and Black Diamond Tarred Felts

Building Papers, Fibre and Manilla Wrappings, etc.

FELT FACTORY, Harbour and Logan Streets, MONTREAL. PAPER MILLS - JOLIETTE, Que.

ALEX. McARTHUR & CO., Limited,

82 McGill Street - MONTREAL

CURRENT MARKET QUOTATIONS.

June 2, 1905.

These prices are for such qualities and quantities as are usually ordered by retail dealers on the usual terms of credit, the lowest figures being for larger quantities and prompt pay. Large cash buyers can frequently make purchases at better prices. The Editor is anxious to be informed at once of any apparent errors in this list, as the desire is to make it perfectly accurate.

METALS.

TIN.

Lamb and Flag and Straits—	
56 and 28-lb. ingots, 100 lb.	$32 00 $33 00

TINPLATES.

Charcoal Plates—Bright.

	Per box.
M.L.S., equal to Bradley—	
I C, usual sizes	$6 50
I X "	8 00
I X X "	9 50
Famous, equal to Bradley—	
I C	6 50
I X	8 00
I X X	9 50
Raven and Vulture Grades—	
I C, usual sizes	4 25
I X "	5 00
I X X "	5 75
I X X X "	6 50

"Dominion Crown Best"—Double Coated, Tissued.

	Per box.
I C	5 50
I X	6 50
I X X	7 50
I Allaway's Best"—Standard Quality.	
I C	4 50
I X	5 50
X	6 50

X Coke Plates—Bright.

Bessemer Steel—	
I.C., usual size, 14x20	3 50
I.C., special sizes, base	3 75
20x28	7 50

Charcoal Plates—Terne

Dean or J. G. Grade—	
I.C., 20x28, 112 sheets	7 50
IX., Terne Tin	10 50

Charcoal Tin Boiler Plates.

Cookley Grade—	
X X, 14x56, 50 sheet bxs.	7 00
" 14x60, "	
" 14x65, "	

Tinned Sheets.

72x30 up to 24 gauge	7 25	7 50
" " 26 "	7 75	8 00

IRON AND STEEL.

	Montreal.	Toronto.
Common bar, per 100 lb.	1 80	1 80
Forged iron "	2 05	2 05
Refined "	2 20	2 05
Horseshoe iron "	2 02½	
Hoop steel, 1½ to 3 in. base		
Sleigh shoe steel "	1 97½	
Tire steel	2 07½	
T. Firth & Sons, tool steel—		
Speedicut		0 60
Annealed speedicut		0 65
Self-hardening		0 36
Best tool steel		0 12
Warranted		0 09
Best sheet steel		0 12
B K. Morton & Co.—		
"Alpha" high speed		0 65
" annealed		0 70
"M." Self-hardening		0 50
"J" quality		0 18
"I" "		0 14
"B C" "		0 09
Jonas & Colver's tool steel	0 10	0 20
"Novo"		0 65
" annealed		0 70
Chas. Leonard	0 08	0 09
Crucible Steel Co.—		
" Rex high speed steel	0 65	0 75
" Self-hardening	0 45	0 50
Crucible Special		0 17
" 8 lver steel		0 13
" Black Diamond	0 10	011
Sanderson's Crucible steel	0 08	0 09
" Superior "	0 12	0 13

BABBIT METAL.

Syracuse Smelting Works:

Aluminum, genuine	0 45
Government, "	0 44
Tough, "	0 40
Hard, "	0 40
Dynamo	0 30
Special	0 25
Maganese	0 18
Car Box	0 17
Extra	0 13
No. 1	0 10
No. 2	0 07
No. 3	0 05½

Large orders subject to discounts.

The Canada Metal Co.:

Imperial, genuine,	0 40
Metallic	0 30
Hercules	0 20
Star	0 15
No. 1	0 12
No. 2	0 10
No. 3	0 06
No. 4	0 05

BLACK SHEETS.

	Montreal.	Toronto
10 gauge	2 30	2 30
12 and 14 gauge	2 25	2 35
17 "	2 20	2 40
22 to 24 gauge	2 05	2 50
26 "	2 10	2 65
28 "	2 15	2 70

COPPER WIRE.

Discount, 50 per cent.

CANADA PLATES.

Ordinary	2 50
All bright	3 75
Galvanized Canada Plates—	
J. C. M. 3 Crowns	
16 x 21 x 60	3 33
18 x 24 x 52	3 33
18 x 24 x 60	3 56

	Ordinary.	Dom. Crown.
18x24x52	4 25	4 35
" 60	4 50	4 60
20x28x80	8 50	8 70
" 94	9 00	9 20

GALVANIZED SHEETS.

Fleur-de-Lis.	Gordon Crown.
16 to 20 gauge 3 40	
22 to 24 gauge 3 50	3 50
26 " 3 75	3 75
28 " 4 00	4 15

Comet Bell.	Queen's Head
16 to 20 gauge 3 40	
22 to 24 gauge 3 45	3 65
26 " 3 70	3 90
28 " 3 95	4 15

American brands, $3.90 for 10¼ oz. Less than case lots 10 to 15c. extra.

CHAIN.

Proof coil, 3-16 in., per 100 lb.	7 00	10 00
" ¼ "		5 60
" 5-16 "		4 45
" ⅜ "		3 85
" 7-16 "		3 70
" ½ "		3 55
" 9-16 "		3 45
" ⅝ "		3 35
" ¾ "		3 25

Halter, kennel and post chains, 40 to 40 and 5 per cent.

Cow ties	40 p.c.
Tie out chains	65 p.c.
Stall fixtures	35 p.c.
Trace chain	45 p.c.
Jack chain, iron, single and double, discount 35 p.c.	[count 40 p.c.
Jack chain, brass, single and double, dis-	

COPPER.

	Ingot.	Per 100 lb.
Casting, car lots	16 25	16 50

Bars.

Cut lengths, round, ¼ to ⅞ in.	21 00	23 00
" round and square,		
Cut 1 to 2 inches	21 00	23 00

Sheet.

Plain, 16 oz., 14x48 and 14x60	21 00
Plain, 14 oz.	22 00
inned copper sheet	24 00
lanished	32 00

Braziers' (in sheets).

4x6 ft., 25 to 30 lb. each, per lb.	0 22
" 35 to 45 " "	0 21
" 50-lb. and above "	0 20

BOILER AND T.K. PITTS.

Plain tinned, Spun } 41½ per cent. off list.

BRASS.

Rod and Sheet, 14 to 30 gauge, 10 per cent.	
Sheets, hard-rolled, 2x4	0 23
Tubing, base, per lb.	0 23½

ZINC SPELTER.

Foreign, per 100 lb	7 00	
Domestic " "	6 75	7 00

ZINC SHEET.

5-cwt. casks	7 00
Part casks	7 25

LEAD.

Imported Pig, per 100 lb.	3 50	3 75
Bar, " "		4 80
Sheets, 2½ lb. sq. ft., by roll		0 06½
Sheets, 3 to 6 lb.		0 06

NOTE.—Cut sheets ½c. per lb., extra. Pipe, by the roll, usual weights per yard, lists at 7c. per lb. and 35 p.c dis. f.o.b. Toronto.

NOTE.—Cut lengths, net price, waste pipe 8-ft lengths, lists at 8c.

ANTIMONY.

Cookson's per lb.	0 09½

SHOT.

Common, $6.50 per 100 lb.; chilled, $7.00 per 100 lb.; buck, seal and ball, $7.50. Discount, 15 p.c. Prices are f.o.b. Toronto, Hamilton, Montreal, St. John and Halifax. Terms, 2 p.c. for cash in thirty days.

PLUMBING GOODS.

BATH TUBS.

Zinc	6 00
Copper, discount 20 per cent. off revised list.	

BATHS.

Standard Ideal Enameled.

Plate E I, Fittings extra	1st quality		Special
4 and 4½ ft. 3 in. rolled rim	$18 00		16 00
5 feet "	19 00		17 00
5½ " "	20 50		18 50
6 " "	23 25		21 25
Plate E II			
4½ feet	2½ in. "	16 75	14 75
5 "	2½ " "	17 50	15 50
5½ "	2½ " "	19 00	17 00
Plate 123 E, lavatories	1st quality		8 90
" 123 E, "	2nd "		7 50
" 127 E, "	1st "		5 70
" 127 E, "	2nd "		4 80
" 128 E, "	1st "		5 60
" 128 E, "	2nd "		4 70
" 129 E, "	1st "		5 40
" 129 E, "	2nd "		4 50
Sinks 18 x 30 in flat rim, A quality			2 45
" " " " " B "			00

IRON PIPE.

Black pipe—	Per 100 feet.
⅛ inch	2 75
¼ "	2 04
⅜ "	2 06
½ "	2 30
¾ "	2 88
1 "	4 12
1¼ "	5 62
1½ "	6 75
2 "	9 00

Galvanized pipe—	
⅛ inch	2 86
¼ "	2 89
⅜ "	3 14
½ "	4 02
1 "	5 77
1¼ "	7 88
1½ "	9 45
2 "	12 60

Malleable Fittings—Canadian discount 35 per cent. American discount 20 to 25 per cent.

Cast Iron Fittings—Standard bushings 50 and 10 and 10 per cent.; headers, 60; flanged unions and lipped, 60 and 5; malleable bushings, 65; nipples, up to 6 in., 75.

PLUMBERS' BRASS GOODS.

Standard Compression work, dis. 60 p.c.
Cushion work, discount 50 per cent.
Fuller work, discount 65 per cent.
6 dozen lots and over of the above, extra discount 10 per cent.
Lever handle Stops and Waste, discount 55 per cent. With in lots of 2 dozen and over an extra discount of 10 per cent.
J.M.T. Globe, Angle and Check Valves, discount 55 per cent.
Standard Globe, Angle and Check Valves, discount 65 per cent.
Kerr's special standard globes and angles, discount 55 per cent.
Kerr's Jenkin disc, copper-alloy disc and heavy standard valves, discount 55 percent.
Kerr's standard brass checks, discount 55 p.c.
Kerr's standard brass disc steam radiator valves, discount 65 per cent.
Kerr's Jenkin disc, copper-alloy disc radiator valves, discount 65 per cent.
Kerr's quick-opening hot-water radiator valves, discount 65 per cent.
Weber's (Kerr) patent straightway gate valves, brass, discount 50 per cent.
Weber's (Kerr) patent straightway gate valves, I.B.B.M., discount 60 and 10 per cent.
J. M. T. Radiator Valves discount 55 per cent.
Standard Radiator Valves, discount 65 per cent.
Patent Quick-Opening Valves, discount 7 and 10 per cent.

No. 1 compression bath cock	net 1 75
No. 4 "	" 1 90
No. 7 Fuller's	" 2 20
No. 4½, "	" 2 85

Patent Compression Cushion, basin cock, hot and cold, per doz., $31; 5 and 10 per cent. discount.

Patent Compression Cushion, bath cock, No. 2208 2 25

Square head brass cocks, discount 55 per cent

" " iron " 60 "

Thompson Smoke-test Machine $25.00

RANGE BOILERS.

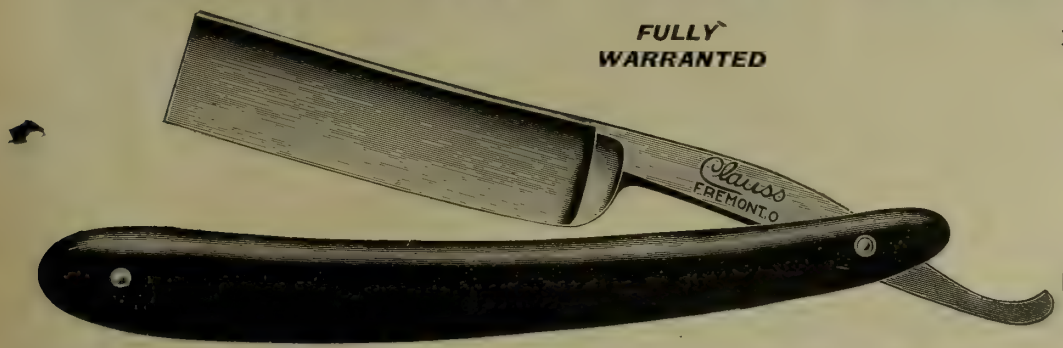
Copper, 30 gallon	" 22 00
" 35 "	" 24 00
" 40 "	" 28 00

Discount off copper boilers 15 per cent.

GALVANIZED IRON RANGE BOILERS.

Capacity. Gals.	Standard.	Extra heavy
12	4.50	6.50
18	4.75	6.75
24	4.75	6.75
30	5.00	7.50
35	6.00	8.50
40	7.00	9.50
52	11.00	14.00
65	18.00	20.00
82	21.00	24 00
100	29.00	34.00
120	34.00	40.00
144	47.00	55.00

CLAUSS BRAND EBONY HANDLED RAZORS



FULLY WARRANTED

Manufactured from finest Clauss hammered steel.
Hardened by our secret process,
Honed and set ready for use.
Crocus-finished back, tang and shoulder.
High blue-polished blades.

CLAUSS SHEAR CO.
169 SPADINA AVENUE
TORONTO, - ONTARIO

WRITE FOR TRADE DISCOUNT

SOIL PIPE AND FITTINGS.

Med. and Extra heavy pipe and fittings, dis. 60 per cent.
7 and 8-in. pipe, discount 40 and 5 per cent.

SOLDER.

	Per lb
Bar, half-and-half, guaranteed	0 17¾
Wiping	0 15½
Refined	0 16¼

PAINTS AND OILS.

COLORS IN OIL.

1-lb. tins, pure.

Venetian red, per lb.	0 08
Chrome yellow	0 15
Golden ochre	0 08
French "	0 06
Marine black	0 01
Chrome green	0 10
French permanent green	0 13
Signwriters' black	0 15

WHITE LEAD.

	Per 100 lb.
Pure	4 60 4 75
No. 1	4 35 4 50
No. 2	4 30
No. 3	3 37½
No. 4	3 35
Munro's Select Flake White	4 75
Elephant and Decorators' Pure	4 75
Tiger brand, pure	5 00
Decorators' Special for exterior use	4 25
Monarch	5 00
Decorator's Pure	4 75
Essex Genuine	4 25
Sterling Pure	5 00
Island City Pure	5 00
Ramsay's Pure Lead	4 75 5 00
Ramsay's Exterior	4 50 4 75

RED LEAD.

Genuine, 560 lb. casks, per cwt	$4 50
Genuine, 100 lb. kegs, "	4 75
No. 1, 560 lb. casks, per cwt	4 00 4 25
No. 1, 100 lb. kegs, per cwt	4 75

WHITE ZINC.

Extra Red Seal	0 06 0 08
French V. M.	0 06½ 0 07
Lehigh	0 06 0 06½
Pure	0 07¾
No. 1	0 06¼
No. 2	0 05¼

DRY WHITE LEAD.

Pure, casks	4 50
Pure, kegs	4 75
No. 1, casks	4 00
No. 1, kegs	4 25

PREPARED PAINTS.

In ¼, ½ and 1-gallon tins.

Pure, per gallon	1 20
Second qualities, per gallon	1 00
Barn (in bbls.)	0 60 0 90
The Sherwin-Williams paints	1 35
Canada Paint Co.'s pure	1 25
Toronto Lead & Color Co's pure	1 25
Sanderson Pearcy's pure	1 20
Standard Co.'s "New Era."	1 30
Francis-Frost Co.'s "Ark" B'd	1 25
" British Navy deck	1 50
Henderson & Potts's "Anchor"	1 35
Ramsay's paints, Pure, per gal.	1 20
" Thistle, "	1 00
" Outside, bbls	0 55 0 65
Island City House Paint	1 25
" Floor "	1 25
Sterling House Paint	1 20
" Floor "	1 10
National	1 05

PARIS GREEN.

Petroleum, barrels, per lb.	0 13½
Arsenic, kegs	0 13½
50 and 100-lb. drums	0 14
25-lb. drums	0 14½
1-lb. paper boxes	0 15
½-lb. paper boxes	0 17

Terms—2 per cent. off 30 days, or 90 days

PUTTY.

Bulk in bbls.	1 50
Bulk in less quantity	1 80
Bladders in bbls.	1 65 1 75
Bladders in kegs, boxes or loose	1 90
25-lb. tins	1 80
12½ lb. tins	2 05
Bladders in bulk or tins less than 100 lb.	1 85

VARNISHES.

	In 5-gal. lots. Per gal.	Net.
Carriage, No. 1	1 50	1 60
Pale durable body	4 10	4 25
" rubbing	2 85	3 20
Gold size, japan	1 50	1 60
No. 1 brown japan	0 85	0 90
Elastic oak		1 50
Furniture, extra	1 10	1 25
" No. 1	0 90	1 00
Hard oil finish	1 35	1 50
Light oil finish	1 60	1 70
Damar	1 75	2 00
Shellac, white	2 40	2 50
" orange	2 30	2 40
Turpentine, brown japan	1 10	1 20
" black japan	1 10	1 20
" " No. 1.	0 85	0 90
Elastilite varnish, 1 gal. can, each		2 00
Granitine floor finish, per gal		2 75
Maple Leaf coach enamels; size 1, size 2, 70c.; size 3, 40c. each.		$1.20
Sherwin-Williams' kopal varnish, case, from to 1 gal., $2.50.		assorted

GLUE.

Common	0 08 0 08½
French medal	0 10 0 14
White, extra	0 18 0 22
Gelatine	
Strip	0 18 0 20
Coopers	0 19 0 20
Huttner	
Ground	0 12 0 16
Cologne, genuine	

HARDWARE.

AMMUNITION.

Cartridges.

B. B. Caps Dominion, 50 and 5 and 25 per cent. American $2.00 per 1000.
C. B. Caps American, $2.60 per 1000.
Rim Fire Pistol, discount 30 p.c., American.
Rim Fire Cartridges, Dominion, 50 and 5 p.c.
Central Fire, Military and Sporting, American, add 20 per cent. to list. B.B. Caps, discount 40 per cent., American.
Central Fire Pistol and Rifle, list net Amer.
Central Fire Cartridges, pistol sizes, Dominion, 30 per cent.
Central Fire Cartridges, Sporting and Military, Dominion, 15 per cent. American 10 per cent. advance on list.
Loaded and empty Shells, "Trap" and "Dominion" grades, 25 per cent. discount. American 20 per cent. discount. Rival and Nitro, 10 per cent. advance on list.
Brass Shot Shells, 55 per cent.
Primers, Dom., 30 per cent.; American, $1.75

Wads.	per lb.
Best thick brown or grey felt wads, in ½-lb. bags	$0 70
Best thick white card wads, in boxes of 500 each, 12 and smaller gauges	0 29
Best thick white card wads, in boxes of 500 each, 10 gauge	0 35
Thin card wads, in boxes of 1,000 each, 12 and smaller gauges	0 20
Thin card wads, in boxes of 1,000 each, 10 gauge	0 25

Chemically prepared black edge grey cloth wads, in boxes of 250 each—	Per M.
11 and smaller gauge	0 60
9 and 10 gauges	0 70
7 and 8 "	0 90
5 and 6 "	1 10
Superior chemically prepared pink edge, best white cloth wads, in boxes of 250 each—	
11 and smaller gauge	1 15
9 and 10 gauges	1 40
7 and 8 "	1 65
5 and 6 "	1 90

ADZES.

Discount 22½ per cent.

ANVILS.

Wright's, 80-lb. and over	0 10¾
Hay Budden, 80-lb. and over	0 09¾
Brook's, 80-lb. and over	0 11¼

APPLE PARERS.

Woodyatt Hudson, per doz., net	4 50

AUGERS.

Gilmour's, discount 60 per cent. off list.

AXES.

Chopping Axes	
Single bit, per doz.	7 00 10 00
Double bit, "	10 00 18 00
Bench Axes, 40 per cent.	
Broad Axes, 25 per cent.	
Hunters' Axes	5 50 6 00
Boys' Axes	6 25 7 00
Splitting Axes	7 00 12 00
Handled Axes	10 00

AMERICAN AXE AND TOOL CO.

Red Ridge, boys', handled	5 75
" hunters	5 25
Underhill American Bench Axes, 40 p.c.	

AXLE GREASE.

Ordinary, per gross	6 00 7 00
Best quality	10 00 12 00

BELLS.

Hand.

Brass, 60 per cent.
Nickel, 55 per cent.

Cow.

American make, discount 63⅔ per cent.
Canadian, discount 45 and 50 per cent.

Door.

Gongs, Sargant's 5 50 8 00
" Peterboro', discount 50 and 10 per cent. off new list.

Farm.

American, each 1 35 3 00

House.

American, per lb. 0 35 0 40

BELTING.

Extra, 60 per cent.
Standard, 60 and 10 per cent.
No. 1, not wider than 6 in., 60, 10 and 10 per cent.
Agricultural, not wider than 4 in., 75 per cent.

BITS.

Auger.

Gilmour's, discount 60 per cent.
Rockford, discount 50 and 10 per cent.
Jennings' Gen., net list.

Car.

Gilmour's, 47½ per cent.

Expansive.

Clark's, 40 per cent.

Gimlet.

Clark's, per doz	0 65 0 90
Diamond, Shell, per doz.	1 00 1 50
Nail and Spike, per gross	2 25 5 20

BLIND AND BED STAPLES.

All sizes, per lb.	0 07¾ 0 12

BOLTS AND NUTS

Carriage Bolts, common (#1 list	Per cent.
" " ⅝ and smaller	60 and 10
" " 7-16 and up	55 and 5
" " full sq. ($2.40 list)	60
" " Norway Iron ($3 list)	60
Machine Bolts, all sizes, ⅝ and less	55
Machine Bolts, 7-16 and up	55 and 5
Plough Bolts	55 and 5
Blank Bolts	55 and 5
Bolt Ends	55 and 5
Sleigh Shoe Bolts	70
Coach Screws, cone point	70 and 5

Nuts, square, all sizes, 4c. per lb. off.
Nuts, hexagon, all sizes, 4½c. per lb. off.
Stove Rods per lb., 5½ to 6c.

BOOT CALKS.

Small and medium, ball per M.	4 25
Small heel "	4 50

BRIGHT WIRE GOODS

Discount 62½ per cent.

BUTCHERS' CLEAVERS.

German per doz.	6 00 9 00
American "	12 00 18 00

BUILDING PAPER, ETC

Tarred Felt, per 100 lb.	1 85
Ready roofing, 2-ply, not under 45 lb. per roll	0 90
Ready roofing, 3-ply, not under 65 lb., per roll	1 15
Carpet Felt per ton	45 00
Heavy Straw Sheathing per ton	35 00
Dry Sheathing per roll, 400 sq. ft.	0 40
Tar " " 400 "	0 50
Dry Fibre " 400 "	0 40
Tarred Fibre " 400 "	0 50
O. K. & I. X. L. " 400 "	0 70
Resin-sized " 400 "	0 45
Oiled Sheathing " 600 "	1 00
Oiled " " 400 "	0 70
Roof Coating, in barrels per gal.	0 17
Roof " small packages "	0 25
Refined Tar per barrel	5 00
Coal Tar "	4 00
Coal Tar, less than barrels per gal.	0 15
Roofing Pitch per 100 lb.	0 90
Slater's felt per roll	0 60

BULL RINGS.

Copper, $1.30 for 2½-inch, and $1.70

BUTTS.

Wrought Brass, net revised list.

Cast Iron.

Loose Pin, discount 60 per cent

Wrought Steel.

Fast Joint, discount 70 to 70 and 5 per cent.
Loose Pin, discount 70 to 70 and 5 per cent.

CARPET STRETCHERS.

American per doz.	1 00 1 50
Bullard's "	6 50

CASTORS.

Bed, new list, discount 55 to 57½ per cent.
Plate, discount 52½ to 57½ per cent.

CATTLE LEADERS.

Nos. 32 and 33 per gross	7 50 8 50

CHALK.

Carpenters' Colored, per gross	0 45 0 75
White lump per cwt.	0 60 0 65
Red	0 05 0 08
Crayon per gross	0 14 0 18

CHISELS.

Socket, Framing and Firmer.

Broad's, discount 70 per cent.
Warnock's, discount 70 per cent.
P. S. & W. Extra, discount 60 and 10 per cent.

CLOTHES REELS.

Davis Clothes Reels, dis. 40 per cent

PLANE IRONS.

English per doz.	2 00 5 00

PLIERS AND NIPPERS.

Button's genuine, per doz. pairs, discount 37½ to 40 per cent.

Button's imitation per doz.	5 00 9 00
man "	0 60 0 60

PRESSED SPIKES.

Discount 20 per cent.

PULLEYS.

Hothouse per doz.	0 55 1 00
Axle "	0 22 0 33
Screw "	0 22 1 00
Awning "	0 35 2 50

PUMPS.

Canadian cistern	1 80 3 60
Canadian pitcher spout	1 40 2 10

Paterson's Wire Edged Ready Roofing

Fire-proof and Sanitary :
Easy to put on :
Hard to wear out :
Don't cost much.

You have hundreds of Customers who require that kind of Roofing Material.

The Paterson Mfg. Co., Limited

Toronto and Montreal.

CONDUCTOR PIPE.

Plain or Corrugated.

2-inch	per 100 feet	3 00
3 "	" "	4 00
4 "	" "	5 25
5 "	" "	6 75
6 "	" "	9 00

CRADLES, GRAIN.

Canadian, discount 20 to 25 per cent.

CROSSCUT SAW HANDLES.

S. & D., No. 3	per pair	0 15
S. & D., " 5	"	0 22½
S. & D., " 6	"	0 15
Boynton pattern	"	0 20

DOOR SPRINGS.

Torrey's Rod	per doz.	....	1 75
Coil, 9 to 11 in.	"	0 95	1 65
English	"	2 00	4 00

DRAW KNIVES.

Coach and Wagon, discount 70 per cent. new list.
Carpenters' discount 70 per cent.

DRILLS.

Hand and Breast.

Millar's Falls, per doz., net list.

DRILL BITS.

Morse, discount 37½ to 40 per cent.
Standard, discount 50 and 5 to 55 per cent.

FAUCETS.

Common, cork-lined, discount 35 per cent.

EAVETROUGHS.

10-inch per 100 ft. 10 00

ELBOWS (stovepipe.)

5 and 6-inch, common	per doz.	1 20
7-inch	"	1 35

Polished, 15c. per dozen extra.

ESCUTCHEONS.

Discount 50 and 10 per cent., new list

ESCUTCHEON PINS.

Iron, discount 40 per cent.

FACTORY MILK CANS.

Discount off revised list, 40 per cent.

FILES AND RASPS.

Great Western	70 and 10 per cent.
Arcade	70 " 10 "
Kearney & Foot	70 " 10 "
Disston's	70 " 10 "
American	70 " 10 "
J. Barton Smith	70 " 10 "
McClellan	70 " 10 "
Eagle	70 " 10 "
Nicholson, 60 and 10 to 60, 10 and 5	"
Royal	80 "
Globe	70 to 75 "

Black Diamond, 60 and 10 to 60, 10 and 5 per cent.
Jowitt's, English list, 25 to 27½ per cent.
Nicholson File Co.'s "Simplicity" file handle, per gross 85c. to $1.50

GLASS.

Window. Box Price.

Size United Inches.	Star Per 50 ft.	Star Per 100 ft.	D. Diamond Per 50 ft.	D. Diamond Per 100 ft.
Under 26	....	3 80	....	5 06
26 to 40	....	4 00	....	5 44
41 to 50	....	4 50	....	6 56
51 to 60	....	4 75	....	7 50
61 to 70	....	5 00	....	8 62
71 to 80	....	5 30	....	9 38
81 to 85	....	....	....	10 75
86 to 90	....	....	....	12 30
91 to 95	....	..	....	15 00
96 to 100	....	....	..	18 00
96 to 100	...	..	...	18 00

GAUGES.

Marking, Mortise, Etc.

Stanley's, discount 50 to 55 per cent.

Wire Gauges.

Winn's, Nos. 26 to 33	each	1 65	2 40

GILLETT'S POWDERED LYE.

1-case, $3.70; 3-case, $3.60; 5-case and over, $3.50.

HALTERS.

Rope, ⅜-inch	per gross	....	9 00
Rope, ½ "	"	....	12 00
Rope, ⅝ to ¾-inch	"	....	14 00
Leather, 1-inch	per doz.	....	4 00
Leather, 1¼ "	"	....	5 20
Web	"	....	2 45

HAMMERS.

Nail.

Maydole's, discount 5 to 10 per cent. Canadian discount 25 to 27½ per cent.

Tack.

Magnetic	per doz.	1 10	1 20

Sledge.

Canadian	per lb.	0 07	0 08½

Ball Pean.

English and Canadian, per lb.		2½	0 25

HANDLES.

Axe, 2nd growth, per doz. net		3 00	4 00
Store door	per doz.	1 00	1 50

Fork.

C. & B., discount 40 per cent., revised list.

Hoe.

C. & B., discount 40 per cent., revised list.

Saw.

American	per doz.	1 00	1 25

Plane.

American	per gross	3 15	3 75

Hammer and Hatchet.

Canadian, discount 40 per cent.

HANGERS.

	doz.	pairs.
Steel barn door	8 00	10 00
Stearns, 4-inch	....	4 50
" 5-inch	....	6 00
Zenith	....	9 00
Lane's covered—		
No. 11, 5-foot run	....	8 40
No. 11½, 10-foot run	....	10 80
No. 12, 10-foot run	....	12 60
No. 14, 15-foot run	....	21 00
Steel, covered	4 00	11 00
" track, 1 x 3-16 in (100 ft)	....	3 75
" " 1½ x 3-16 in (100 ft)	....	4 75

HARVEST TOOLS.

Discount 60 per cent.
S. & D. lawn rakes, Dunn's, 40 off.
" sidewalk and stable scrapers, 40 off.
" Maple Leaf and Premiums saw sets, 40 off.
" saw swages, 40 off.

HATCHETS.

Canadian, discount 40 to 42½ per cent.

Shingle, Red Ridge 1, per doz	4 40
" " 2, "	4 85
Barrel, Underhill	5 00

HAT ENAMEL.

Henderson & Potts' 'Anchor Brand'

HINGES.

Blind, Parker's, discount 60 per cent.

Heavy T and strap, 4-in., per lb.	0 06½
" 5-in., "	0 06½
" " 6-in., "	0 06
" " 8-in., "	0 05½
" " 10-in., "	0 05½

Light T and strap, discount 65 and 5 per cent
Screw hook and hinge—

6 to 10 in.	per 100 lb.	....	4 50
12 in. up	"	....	3 25
Spring, No. 20,	per gro. pairs	....	10 80

Spring, Woodyatt pattern, per gro., No. 5, $17.50; No. 10, $18; No. 20, $10.80; No. 120, $20; No. 51, $10; No. 50, $27.50.

HOES.

Garden, Mortar, etc., discount 60 per cent.

Planter	per doz.	4 00	4 50

HOLLOW WARE

Tinned cast, 35 per cent.

HOOKS.

Cast Iron.

Bird cage	per doz.	0 50	1 10
Clothes line, No. 61	"	0 00	0 70
Harness	"	0 60	12 00
Hat and coat	per gro.	1 10	10 00
Chandelier	per doz.	0 50	1 00

Wrought Iron.

Wrought hooks and staples Canadian discount 60 per cent.

Wire.

Hat and coat, discount 60 per cent.

Belt	per 1,000	....	0 60

Screw, bright, discount 62½ per cent.

HORSE NAILS.

"P.B." Brand, 55 to 60 per cent.
'C' brand, 40, 10 and 7½ per cent. off list } Oval
M.R.M. Co. brand, 55 per cent. } head
"Monarch," 50 and 7½ per cent.
'Peerless" 50 per cent. dis.

HORSESHOES.

F.O.B. Montreal

"P.B." brand, new pattern, base	$3 50
M.R.M. Co. brand, base	3 65

Add 15c. Toronto, Hamilton, Guelph.

JAPANNED WARE.

50 per cent.

PICKS.

Star	per doz.	3 00	3 25

KETTLES.

Brass spun 7½ per cent. discount off new list.

Copper	per lb.	0 30	0 50

American, 60 and 10 to 65 and 5 per cent.

KEYS.

Lock, Canadian dis. 40 to 40 and 10 per cent.

Cabinet trunk and padlock American	per gross	....	0 60

KNOBS.

Door, japanned and N.P., per doz.		1 50	2 50
Bronze, Berlin	per doz.	2 75	3 25
Bronze, Genuine	"	6 00	9 00
Shutter, porcelain, F. & L. screw	per gross	1 30	2 00
White door knobs	per doz.	....	2 00

HAY KNIVES.

Net prices.

LAMP WICKS.

Discount, 60 per cent.

LADDERS, EXTENSION.

Waggoner Extension Ladders, dis. 40 per cent.

LANTERNS.

Cold Blast	per doz.	4 50
No. 3, "Wright's"	"	8 50
Ordinary, with O burner	"	4 00
Dashboard, cold blast	"	9 00
No. 0	"	5 75

Japanning, 50c. per doz. extra.

LEMON SQUEEZERS.

Porcelain lined	per doz.	2 20	5 60
Galvanized	"	1 87	3 85
King, wood	"	2 75	2 90
King, glass	"	4 00	4 50
All glass	"	0 50	0 90

LAWN MOWERS FOR 1905.

Woodyatt, 10½-in., 14-in. cut	$ 8 50	to $11 00
Star, 9 -in.	" 6 00	to 6 50
Daisy, 8 -in.	" 5 25	to 5 75
Philadelphia, 7½-in.	" 6 00	to 7 50
Woodyatt, 10½-in., ball bearing	13 25	to 18 00
Grass Boxes	1 75	to 2 00
King Edw'd 12-in., 14-in. cut	9 00	to 10 00

Horse Lawn Mowers, "Special."

Discount, 50 per cent., with freight concessions in quantity shipments.

Maxwell & Sons

10½-in. high wheel	0	10 00
9-in.	5 50	6 25
8-in.	4 90	5 50

Discount 50 per cent.

LOCKS.

Canadian, 50 to 50 and 10 per cent.
Russell & Erwin, steel rim ...per doz. 2 .5

Cabinet.

Eagle, discount 30 per cent.

Padlocks.

English and Am.	per doz.	0 50	6 00

Eagle, discount 20 to 25 per cent.

MACHINE SCREWS.

Iron and Brass.

Flat head, discount 25 per cent.
Round head, discount 20 per cent.

MALLETS.

Tinsmiths'	per doz.	1 25	1 50
Carpenters', hickory,	"	1 25	3 75
Lignum Vitae	"	3 85	5 00
Caulking, each		0 60	2 00

MATTOCKS.

Canadian	per doz.	5 50	6 00

MEAT CUTTERS.

American, discoun 3½ per cent.
German, 15 per cen
Gem ....each 1 15

MILK CAN TRIMMINGS.

Discount 25 per cent.

NAILS.

	Cut.	Wire
2d	3 40	3 25
3d	3 05	2 90
4 and 5d	2 80	2 65
6 and 7d	2 70	2 55
8 and 9d	2 55	2 40
10 and 12d	2 50	2 35
16 and 20d	2 45	2 30
30, 40, 50 and 60d (base)	2 40	2 25

F.o.b. Toronto.
Steel cut nails 10c. extra.
Miscellaneous wire nails, discount 75 per cent.
Coopers' nails, discount 30 per cent.

NAIL PULLERS.

German and American	85	2 50
No. 1	85	
No 1573	75	

NAIL SETS.

Square, round and octagon, per gross	3 38
Diamond	1 00

POULTRY NETTING.

2-in. Mesh, 19 w.g., dis. 60 per cent.
2-in. Mesh 16 w.g. 60 per cent.
Smaller than 2 in. dis. 55 per cent.

OAKUM.

U. S. Navy	per 100 lb.	....	6 75
Plumbers	"	....	3 00

OILERS.

McClary's Model galvanized oil can, with pump, 5 gallon, per dozen 10 00
Davidson oilers, discount 40 per cent.
Zinc and tin, discount 50, 50 and 10 per cent

Copper	per doz.	1 25	3 50
Brass	"	1 50	3 50

Malleable, discount 25 per cent

GALVANIZED PAILS.

Dufferin pattern pails, discount 47½ per cent
Flaring pattern, discount 47½ per cent.
Galvanized washtubs, discount 47½ per cent

PIECED WARE.

Discount 40 per cent off list, June, 1899.
10-qt. flaring sap buckets, discount 40 per cent
6, 10 and 14-qt. flaring pails dis. 40 per cent.
Creamer cans, discount 40 per cent.

PICKS.

Per dozen		6 00	9 00

PICTURE NAILS.

Porcelain head	per gross	1 35	1 50
Brass head	"	0 40	1 00

PICTURE WIRE.

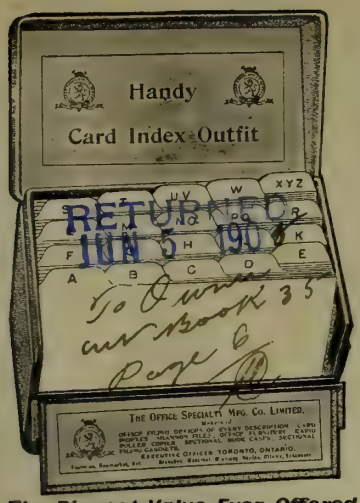
Tin and gilt, discount 75 per cent.

PINE TAR.

½ pint in tins	per gross	..	7 80
1 " "	"	...	9 60

PLANES.

Wood bench, Canadian discount 40 per cent.
American discount 50 per cent.
Wood, fancy Canadian or American 37½ to 40 per cent



Good News for Paint Dealers

With our **HANDY LITTLE CARD INDEX OUTFIT** we will devise a system for Paint Dealers by which they can file prospects, quotations, sales, stock on order, stock on hand, etc. This is applicable to Hardware Dealers also. Let us make this system up for you; the cost is only ***$2.50.*** **SEND NOW.**

Full Line of Business Furniture in Stock.

The Biggest Value Ever Offered PRICE, $2.50.

THE OFFICE SPECIALTY MFG. CO., Limited

Factories, NEWMARKET. **97-105 Wellington St. West, (near York), TORONTO**

PUNCHES.

Saddler's ..... per doz.	1 00	1 85
Conductor's..... "	3 00	15 00
Tinners', solid..... per set	....	0 72
" hollow..... per inch	....	1 00

RAKES.

Wood..... per doz. net 1 20 up

RAZORS.

	per doz.	
Elliot's	4 00	18 00
Geo. Butler's & Co.'s.....	4 00	18 00
Boker's	7 50	11
" King Cutter	13 50	18 50
Wade & Butcher's.....	3 60	10 00
Carbo Magnetic.....	....	15 00
Griffon Barber's Favorite	....	10 75
Griffon No. 65.....	....	13 00
Griffon Safety Razors.....	....	13 50
Griffon Stropping Machines..	....	13 50
Lewis Bros' "Klean Kutter"	8 50	10 50
Hindoo	10 50	14 00
Orgsteom's Swedish.....	3 50	10 00
Henckel's	7 50	20 00

Clauss, 50 and 10 per cent.
Clauss Strops, 50 and 10 per cent.

REGISTERS.

Discount 40 per cent.

RIVETS AND BURRS.

New List.

Iron Rivets, black and tinned, 60 and 10 and 10 per cent.
Iron Burrs, discount 60 and 10 and 10 p.c.
Copper Rivets, with usual proportion burrs, 45 per cent.
Copper Burrs only, discount 30 and 10 per cent.
Extras on Tinned or Coppered Rivets, ½-lb. packages 1c. per lb.; ¼-lb. packages 2c. lb.

RIVET SETS.

Canadian, discount 35 to 37½ per cent.

ROPE, ETC.

Sisal.....		0 11
Pure Manilla		0 14½
"British" Manilla.....		0 11
Cotton, 3-16 inch and larger	0 21	0 23
" 5-32 inch	0 25	0 27
" ⅛ inch	0 25	0 28
Russia Deep Sea		0 16
Jute.....		0 09
Lath Yarn, single		0 10
" double		0 10½
Sisal bed cord, 48 feet..... per doz.		0 65
" " 60 feet ..... "		0 80
" " 72 feet..... "		0 95

RULES.

Boxwood, discount 70 per cent.
Ivory, discount 20 to 25 per cent.

SAD IRONS.

Mrs. Potts, No. 55, polished....per set	0 75
" No. 50, nickle-plated, "	0 80
Common, plain.....	4 50
" plated	5 50

SAND AND EMERY PAPER.

B. & A. sand, discount, 40 and 5 per cent
Emery, discount 40 per cent.
Garnet (Rurton's) 5 to 10 per cent. advance on list.

SAP SPOUTS.

Bronzed iron with hooks ....per 1,000 7 50
"Eureka" tinned steel, hooks " 8 00

SAWS.

Hand, Disston's, discount 12½ per cent
S. & D., discount 40 per cent.
Crosscut, Disston's....per foot 035 0 55
S. & D., discount 35 per cent. on Nos. 2 and 3.
Hack, complete.....each 0 75 2 75
" frame only.....each 0 50 1 25
S. & D. solid tooth circular shingle, concave and band, discount 50 per cent.
" mill and ice, drag, discount 30 per cent
" cross-cut, discount 35 per cent.
" hand saws, butcher, disc't 40 per cent
" compass, pruning and back, discount 45 per cent.
" buck, New Century.....$6 25
" " No. 1 Maple Leaf..... 5 25
" " Happy Medium..... 4 25
" " Watch Spring..... 4 25
" " common frame. 4 00

SASH WEIGHTS.

Sectional.....per 100 lb.	2 00	2 25
Solid ..... "	1 50	1 75

SASH CORD.

Per lb..... 0 28 0 30

SAW SETS. per doz.

Lincoln and Whiting	4 75
Hand Sets, Perfect	4 00
X-Cut Sets, "	7 50

SCALES.

Gurney Standard, 40 per cent.
Gurney Champion, 50 per cent.
Burrow, Stewart & Milne—
Imperial Standard, discount 40 per cent.
Weigh Beams, discount 35 per cent.
Champion Scales, discount 50 per cent.
Fairbanks standard, discount 35 per cent.
" Dominion, discount 55 per cent.
" Richelieu, discount 55 per cent.
Warren's new Standard, discount 40 per cent.
" " Champion, discount 50 per cent.
" Weighbeams, discount 35 per cent.

SCREW DRIVERS.

Sargent's .....per doz. 0 65 1 00

SCREEN DOORS.

Common doors, 2 or 3 panel, walnut stained, 4-in. style.....per doz. 6 50
Common doors, 2 or 3 panel, yellow and green stained, 4-in. style....per doz. 6 75
Common doors, 2 or 3 panel, in natural colors, oil finish .....per doz. 8 75
3-in. style 20c. per dozen less.

SCREWS.

Wood, F. H., bright and steel, discount 87½ per cent.
Wood, R. H., bright, dis. 82½ per cent.
" F. H., brass, dis. 80 per cent.
" R. H., " dis. 75 per cent.
" F. H., bronze, dis. 75 per cent.
" R. H., " dis. 70 per cent.
Drive Screws, dis. 87½ per cent.
Bench, wood .....per doz. 3 25 4 00
" iron ..... " 4 25 5 00
Set, case hardened, dis. 60 per cent.
Square Cap, dis. 50 and 5 per cent.
Hexagon Cap, dis. 45 per cent.

SCYTHES.

Per doz. net..... 6 00 9 00

SCYTHE SNATHS.

Canadian, discount 40 per cent.

SHEARS.

Clauss, nickel, discount 80 per cent.
Clauss, Japan, discount 67½ per cent.
Clauss, tailors, discount 40 per cent.
Seymour's, discount 50 and 10 per cent.

SHOVELS AND SPADES.

Canadian, discount 45 per cent.

SINKS.

Cast iron, 16 x 24.....	...	0 85
" 18 x 30.....	....	1 00
" 18 x 36.....	....	1 40

SNAPS.

Harness, German, discount 25 per cent.
Lock, Andrews' 4 50 11 50

SOLDERING IRONS.

1, 1½-lb..... per lb.	....	0 37
2-lb. or over ..... "	....	0 34

SQUARES.

Iron, No. 492 .....per doz.	1 90	2 25
" No. 493 ..... "	2 40	2 55
" No. 494 ..... "	3 25	3 40

Steel, discount 60 and 5 to 65 per cent.
Try and Bevel, discount 50 to 52½ per cent.

STAMPED WARE.

Plain, discount 75 and 12½ per cent. off revised list.
Retinned, discount 75 per cent. off revised list

STAPLES.

Galvanized	....	3 00
Plain	....	2 80

Coopers', discount 45 per cent.
Poultry netting staples, discount 40 per cent.

STOCKS AND DIES.

American discount 25 per cent.

STONE.

Washita .....per lb.		0 28	0 60
Hindostan	"	0 06	0 07
" slip	"	0 09	0 09
Labrador.....	"	....	0 13
" Axe.....	"	....	0 15
Turkey	"	....	0 50
Arkansas.....	"	....	1 50
Water-of-Ayr	"	....	0 10
Scythe .....per gross		3 50	5 00
Grind, 40 to 200 lb., per ton....		....	25 00
" under 40 lb., "		....	28 00
" 200 lb. and over		....	31 00

STOVEPIPES.

5 and 6 inch, per 100 lengths	....	7 00
7 inch.....	....	7 50

TACKS, BRADS, ETC.

Carpet tacks, blued	80 and 15
" " tinned.....	80 and 20
" " (in kegs).....	40
Cut tacks, blued, in dozens only	80
" ½ weights	60
Swedes cut tacks, blued and tinned—	
In bulk.....	80 and 10
In dozens	75
Swedes, upholsterers', bulk....85,	12½ and 12½
" brush, blued and tinned bulk	70
Swedes, gimp, blued, tinned and japanned.....	75 and 12½
Zinc tacks	35
Leather carpet tacks.....	55
Copper tacks.....	50
Copper nails	52½
Trunk nails, black	65 and 5
Trunk nails, tinned.....	65 and 10
Clout nails, blued	65 and 5
Chair nails.....	35
Patent brads.....	40
Fine finishing.....	40
Lining tacks, in papers.....	10
" " in bulk.....	15
" " solid heads, in bulk	75
Saddle nails, in papers.....	10
" " in bulk.....	15
Tufting buttons, 22 line, in dozens only	60
Zinc glaziers' points	5
Double pointed tacks, papers..	90 and 10
" " " bulk....	40
Clinch and duck rivets.....	45

TAPE LINES.

English, ass skin .....per doz.	2 75	5 00
English, Patent Leather	5 50	9 75
Chesterman's .....each	0 90	2 85
" steel.....each	0 80	8 00

TINNERS' SNIPS.

Per doz.....	3 00	15 00

Clauss, discount 35 per cent.

THERMOMETERS.

Tin case and dairy, 75 to 75 and 10 per cent.

TRAPS (steel.)

Game, Newhouse, discount 25 per cent.
Game, H. & N., P. S. & W., 45 and 5 per cent.
Game, steel, 60 and 5 per cent.

TROWELS.

Disston's, discount 10 per cent.
German.....per doz. 4 75 6 00
S. & D., discount 35 per cent.

TWINES.

Bag, Russian .....per lb.	....	0 27
Wrapping, cotton, 3-ply	....	0 24
" 4-ply	....	0 27
Mattress .....per lb.	0 33	0 45
Staging..... "	0 27	0 35

VISES.

Wright's.....	....	0 13½
Brook's.....	....	0 12½
Pipe Vise, Hinge, No. 1	....	3 50
" " No. 2.....	....	5 50
Saw Vise	4 50	9 00

Columbia Hardware Co.
Blacksmiths' (discount) 60 per cent.
" parallel (discount) 45 per cent.

ENAMELLED WARE.

White, Princess, Turquoise, Blue and White discount 50 per cent.....
Diamond, Famous, Premier, discount 50 and 10 per cent.....
Granite or Pearl, Imperial, Crescent, discount 50, 10 and 10 per cent.
Premier steel ware, 40 per cent.
"Star" decorated steel and decorated whit 25 per cent.

WIRE.

Smooth Steel Wire.

No. 0-9 gauge.....		$2 15
10 "		6c. extra.
11 "	12c.	"
12 "	20c.	"
13 "	30c.	"
14 "	40c.	"
15 "	55c.	"
16 "	70c.	"

Add 60c. for coppering and $2 for tinning.
Extra net per 100 lb.—Oiled wire 10c. spring wire $1.25, special hay baling wire 30c. best steel wire 75c., bright soft drawn 15c., charcoal (extra quality) $1.25, packed in casks or cases 15c., bagging and papering 10c., 50 and 100-lb. bundles 10c., in 25-lb. bundles 15c., in 5 and 10-lb. bundles 25c., in 1-lb. hanks, 50c., in ½-lb. hanks 75c., in ¼-lb. hanks $1.
Fine Steel Wire, discount 27½ per cent. List of extras: In 100-lb. lots: No. 17, $5—No. 18, $5.50—No. 19, $6—No. 20, $6.65—No. 21, $7—No. 22, $7.30—No 23, $7,65—No. 24, $8—No. 25, $9—No. 26, $9.50—No. 27, $10—No. 28, $11—No. 29, $12—No. 30, $13—No.31, $14—No. 32, $15—No. 33, $16—No. 34, $17. Extras net—tinned wire, Nos. 17-25, $2—Nos. 26-31, $4—Nos. 32-34, $6. Coppered, 5c.—oiling, 10c.—in 25-lb. bundles, 15c.—in 5 and 10-lb. bundles, 25c.—in 1-lb. hanks, 25c.—in ½-lb. hanks, 38c.—in ¼-lb. hanks, 50c.—packed in casks or cases, 15c.—bagging or papering, 10c.
Brass wire, discount 60 per cent. off the list.
Copper wire, discount 60 per cent. net cash 30 days, f.o.b factory.
Galvanized wire, per 100 lb.—Nos. 4 and 5, $3.70 to $3.70—Nos. 6, 7, 8, $3.15 to $3.15—No. 9, $2.55 — No. 10, $3.20 to $3.20—No. 11, $3.25 to $3 25 — No. 12, $2.65—No. 13, $2.75—No. 14. $3.75 to $3.75—No 15, $4.30—No. 16. $4.30. Base sizes, Nos. 6 to 9, $2.37½ f.o.b. Cleveland. In carlots 12½c. less.
Clothes Line Wire, 7 wire solid line, No. 17 $4.90; No. 18, $3.00; No. 19, 2.70; 6 wire solid line, No. 17, $4.45; No. 18, $2.80; No. 19, $2.50. All prices per 1000 ft. measure. F.o.b. Hamilton, Toronto, Montreal.

WIRE FENCING.

Galvanized barb.....	2 50	2 75
Galvanized, plain twist	2 50	2 75

Galvanized barb, f.o.b. Cleveland, $2 30 for small lots and $2 20 for carlots.

COILED SPRING WIRE.

HighCarbon, No. 9.....	$2 70
" No. 11	3 35
" No. 12	2 95

WIRE CLOTH.

Painted Screen, per 100 sq. ft., net.. 1 50
Terms, 2 per cent. off 30 days.

WASHING MACHINES.

Round, re-acting per doz.	56 00
Square " "	59 00
Eclipse, per doz	48 00
Dowswell "	36 00
New Century, per doz	72 00
Connor Improved.....	33 00
Daisy.....	48 00

WRINGERS.

Leader .....per doz.	30 00	33 00
Royal Canadian..... "	....	24 00
Royal American..... "	....	24 00

Terms, 3 months, 2 per cent. 30 days.

WROUGHT IRON WASHERS.

Canadian make discount 40 per cent.

"ENTERPRISE"

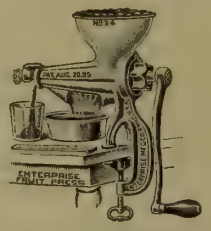
A SEASONABLE SHOWING



Cherry Stoner, No. 1, $7.50 doz.



Lawn Sprinkler, No. 1, $3.50



Fruit, Wine and Jelly Press, No. 34, $3.00



Food Chopper, No. 50, $1.25

AT this season, women (and their husbands), have it on their minds to buy a Cherry Stoner, or Lawn Sprinkler, or Fruit Press, or Food Chopper. They know all about "Enterprise" goods, and you will make many a sale that would otherwise be lost if you

SHOW THEM

Two Questions: Are you having good sales of the new size, No. 50 Enterprise Food Chopper? It Chops 1½ lbs. of meat a minute and retails for $1.25. Have you got our 1905 catalogue handy for reference? If not, drop a postal for another.

New York Branch
10 Warren St.

THE ENTERPRISE MFG. CO. OF PA.
PHILADELPHIA, U.S.A.

San Francisco Branch
104 Front St.

INDEX TO ADVERTISERS.

A

Acme Lathe & Products Co 51
American Shearer Mfg. Co 21
American Steel and Wire Co 4
Atkins, E. C., & Co 55
Armstrong Bros 45
Atlas Mfg. Co 56

B

Barnett, G. & H., Co ....outside back cover
Berry Bros 43
Bartlett, Wm., & Son 51
Birkett, Thos., & Son Co. 1
Bolton, Fane & Co 26
Boss Machine Co 8
Bosson Bros 56
Bradstreet's 64

C

Canada Brass Rolling Mills 27
Canada Foundry Co 41
Canada Iron Furnace Co 35
Canada Paint Co 46
Canada Paper Co 21
Canadian Aluminum Works 49
Canadian Fairbanks Co 23
Canadian Rubber Co 12
Canadian Sewer Pipe Co 56
Clauss Shear Co 59
Consolidated Plate Glass Co 45
Consumers' Cordage Co 11
Contract Record 56
Covert Mfg. Co 40
Cutts, C. M. & Co 51

D

Davidson, Thos., Mfg. Co 2
Deseronto Iron Co 35
Dods, P. D., & Co 45
Dominion Belting Co 10
Dominion Wire Mfg. Co 7
Dorken Bros. .....outside front cover
Dowswell Mfg. Co 47
Drummond, McCall & Co 6

E

Enterprise Mfg. Co 62
Enterprise Mfg. Co., of Akron, Ohio ... 64
Erie Specialty Co 64

F

Fabien, C. P 40
Falkiner, H. F 50
Ferrosteel Co 25
Foster Pottery Co 50
Frothingham & Workman 9

G

Gelinas, Fred 40
Gibb, Alexander 26
Gies, Philip 21
Gilbertson, W., & Co 39
Glauber Brass Co 21
Great West Wire Fence Co 39
Greening, B., Wire Co 7
Grey & Bruce Portland Cement Co 54
Grove Chemical Co 45
Gurney Foundry Co 27, 51
Gurney, Tilden Co 53
Gutta Percha and Rubber Mfg. Co ....
outside back cover

H

Hankin, F 41
Hanover Portland Cement Co 54
Harrington & Richardson Arms Co 41
Hart & Cooley Co 25
Heinisch, R., Sons Co 10
Henderson, J. A 47
Henderson & Potts Co 44
Herm, Weissenburger & Co 45
Hobbs Hardware Co 31
Hobbs Mfg. Co 55
Howland, H. S., Sons & Co 17
Hyde, F. & Co 35

I

Imperial Varnish and Color Co 42

J

Jackson, C. F., & Co 35
Jardine, A. B., & Co 21
Jenking, A. C 54
Johnson's, Iver, Arms and Cycle Works 16
Johnston, Rd., Clapham & Morris. 6

K

Kemp Mfg. Co 12
Kerr Engine Co 20

L

Lamplough, F. W., & Co 28
Leslie, A. C., & Co 35
Lewis Bros. & Co 3
Lewis, Rice, & So ..... inside front cover
Lockerby & McComb 53
London Rolling Mill Co. .inside back cover
Loughead, J. S., & Son 26
Lufkin Rule Co .....inside back cover
Luxfer Prism Co 55
Lysaght, John. .....outside front cover

M

Mackenzie Bros 39
Maple Leaf Harvest Tool Co 5
Mast, J. M., Mfg. Co 10
Maxwell, D., & Sons 6
Metallic Roofing Co 37
Montreal Rolling Mills Co 20
Morton, B. K., & Co 35
Morrison, James, Brass Mfg. Co 18
Morrow, John, Machine Screw Co 39

Mc

McArthur, Alex., & Co 58
McArthur, Corneille & Co. 43
McCaskill, Dougall & Co 45
McClary Mfg. Co 28
McDougall, R., Co 35
McGregor-Banwell Fence Co 40

N

Naturo Co 22
Newman, W., & Sons 54
Nicklin, John, & Co ..... inside back cover
North Bros. Mfg. Co 1
North West Machinery & Iron Co 26
Nova Scotia Steel and Coal Co 35

O

Oakey, John, & Sons 50
Office Specialty Mfg. Co 61
Oneida Community 9
Ontario Lantern and Lamp Co 41
Ontario Tack Co 14
Ontario Wind Engine and Pump Co .. 51
O-So-Ezy Mfg. Co 54
Owen Sound Wire Fence Co 7

P

Page-Hersey Iron and Tube Co 21
Paterson Mfg. Co 60
Pearce, Frank, & Co 26
Pedlar People 54, 57
Penberthy Injector Co 23
Phillips, Chas. D 54

Q

Queen City Oil Co 41

R

Ramsay, A., & Son Co 10, 23
Ross, J. A 10
Round, John, & Son 8
Royal Paper Mills Co ....inside back cover
Russell & Erwin Mfg. Co 9

S

Sadler & Haworth .....outside back cover
Samuel, M. & L., Benjamin, & Co 2
Sanderson-Harold Co 27
Saunders, Franklin & Co 20
Scott, Greenwood & Co 45
Seymour, Henry T., Shear Co 10
Sharratt & Newth 10
Shaw, A., & Son 10
Sherwin-Williams Co 15
Silberstein, A. L., & Co 1
Silica Barytic Stone Co 56
Skedden Brush Co 43
Smart, Jas., Mfg. Co 49
Smith & Hemenway Co 21
Solarine Metal Polish 50
Standard Ideal Sanitary Co 19
Standard Paint and Varnish Works ... 45
Steel Trough and Machine Co 51
Stephens, G. F., & Co 38

T

Taylor-Forbes Co ..... outside front cover
Thompson, B. & S. H., Co ....
outside back cover
Thorne, R. E 26
Turnbull & Henderson 26

U

United States Register Co 25
Utica Drop Forge and Tool Co 21

V

Voss Bros. Mfg. Co 4

W

Wallace Barnes Co 21
Walter, E. F., & Co 1
Welsh Tinplate & Metal Stamping Co .. 1
Western Wire Nail Co 10
White Lead Association 47
Wilcox Mfg. Co 53
Wilkinson Sword Co 64
Winnipeg Paint and Glass Co 39
Wright, E. T., & Co 50

CLASSIFIED LIST OF ADVERTISEMENTS.

Aluminum Castings.
Canadian Aluminum Works Montreal.

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Taylor-Forbes Co., Guelph, Ont.

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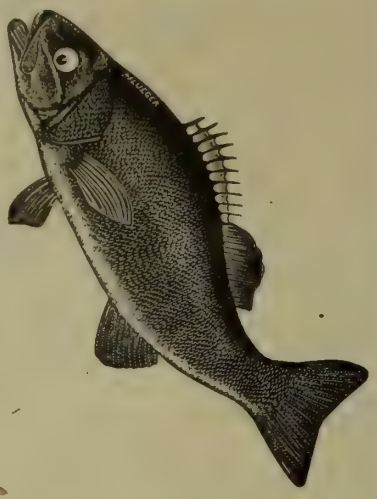
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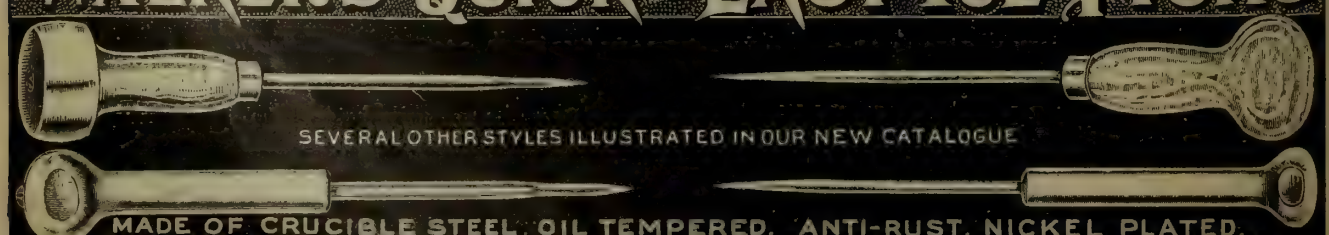
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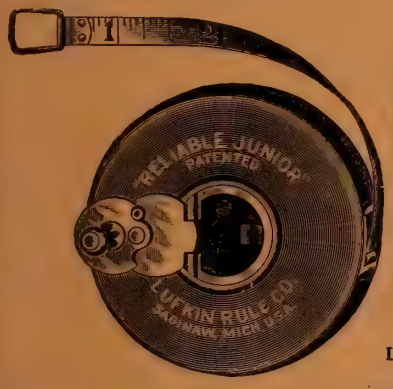
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Classified List of Advertisements on Page 75.

LAWN GOODS

BALL-BEARING
LAWN MOWERS


RETURNED JUN 12 1905

LAWN BENCHES

GET OUR PRICES
GARDEN HOSE


TURNED 12 1905

MONITOR
LAWN SPRINKLER

HOSE


RETURNED JUN 12 1905

LAWN VASE, No. 7

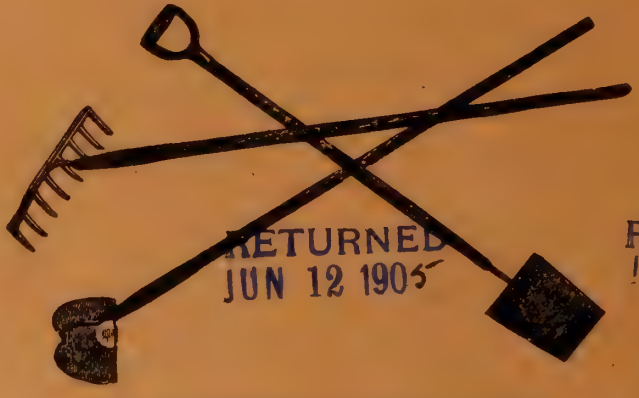
HOSE


RETURNED JUN 12

KLONDIKE
LAWN SPRINKLER


TURNED N 12 1905

LAWN VASE, No. 6


RETURNED JUN 12 1905

SETS OF GARDEN TOOLS—All Sizes


RETURNED JUN 12 1905

LAWN VASE, No. 3

WRITE FOR PRICES

RICE LEWIS & SON

LIMITED

TORONTO.

BAYLISS, JONES & BAYLISS, LD.

MANUFACTURERS OF
PATENT SELF-ADJUSTING, ROUND-BAR, UNCLIMBABLE

RAILING.

No. F251B, with BLUNT POINTS.

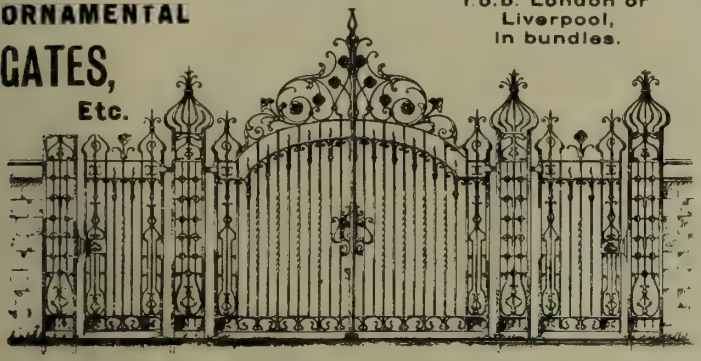


Suits level also undulating ground. Price from 4s. 9d. per lineal yard, f.o.b. London or Liverpool, in bundles.

List free.

PLAIN AND ORNAMENTAL

GATES, Etc.



Also Manufacturers of IRON AND WIRE FENCING, BOLTS, PATENT NUTS, TIE-BARS, Etc. Catalogue Free.

VICTORIA WORKS:— **WOLVERHAMPTON,** (ENGLAND).

LONDON OFFICES AND SHOWROOMS: 139 and 141 CANNON ST., E C.

To the

Hardware Merchants

and

General Store Keepers

we solicit a call or inquiry.

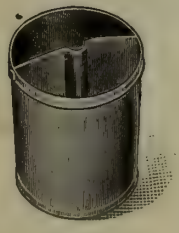
THOS. BIRKETT & SON CO., LIMITED

WHOLESALE HARDWARE MERCHANTS

OTTAWA, ONT.







"LIGHTNING" "GEM" "BLIZZARD"



"AMERICAN" (2 in 1) TWIN FREEZERS

Freezes two flavors of Ice Cream or an Ice or Sherbet and Ice Cream at one and same time, in one Freezer Something entirely new. Never done before.

ASK YOUR JOBBER FOR THEM.
SEND FOR NEW FREEZER BOOK.

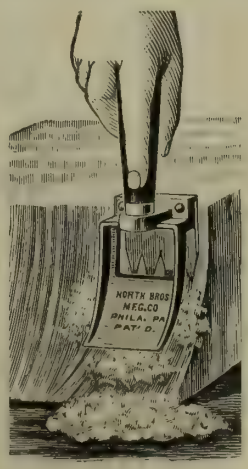
NORTH BROS. MFG. CO.

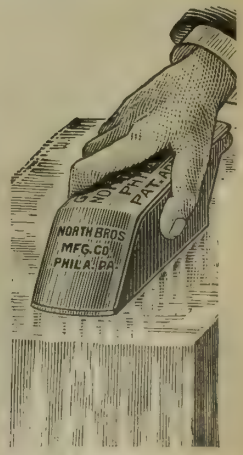
PHILADELPHIA, PA.

THE BEST ICE CREAM FREEZERS in practical use, because convenient, compact in size, use smallest amount of ice and salt, run easily, freeze quickly, produce smoothly frozen creams or desserts with little bother and less work.

THE ONLY FREEZERS MADE having Cedar Pails with Electric Welded Wire Hoops Cans of Heavy Tin with Drawn Steel Bottoms, **Automatic** Tin Scrapers.







"LIGHTNING" ICE CHIPPERS "CROWN" "GEM" ICE SHAVE

THE ARCTIC ICE CHEST



HANDY AND COMPACT
REFRIGERATOR

Made on Scientific Principles

Lined with Galvanized Iron.
Japanned in Oak and Ornamented. Nickel Plated Top.
Suitable for Yachting and Picnic Parties, Summer Residences, etc.
A boon in the sick room. Food for the invalid can be kept fresh and sweet at all times.

MADE IN THREE SIZES

No. 20—19 x 13¼ x 13¼
No. 30—23 x 16 x 16
No. 40—27 x 19¼ x 19¼

Prices on application to

The Thos. Davidson M'f'g Co., Limited
MONTREAL.

Imitation Russia Iron

IN STOCK. 5 CWT. CASES.

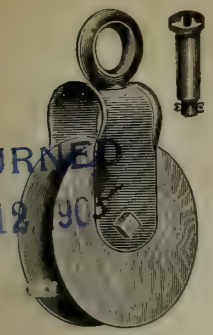
37	Cases	72 x 30 x 26	ge.		5	Cases	72 x 24 x 20	ge.	
8	"	"	24	"	7	"	"	21	"
7	"	"	22	"	24	"	"	22	"
7	"	"	20	"	12	"	"	24	"
17	"	"	18	"	16	"	84 x 28 x 22		"

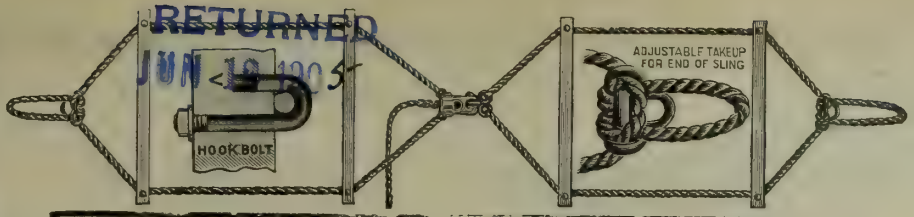
LOW PRICES. PROMPT SHIPMENT.

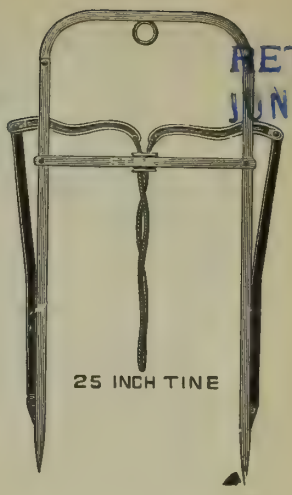
M. & L. Samuel, Benjamin & Co.

503 Temple Building - TORONTO.

English House—16 Philpot Lane, LONDON, ENGLAND

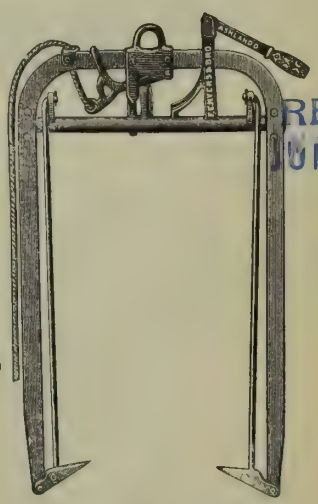




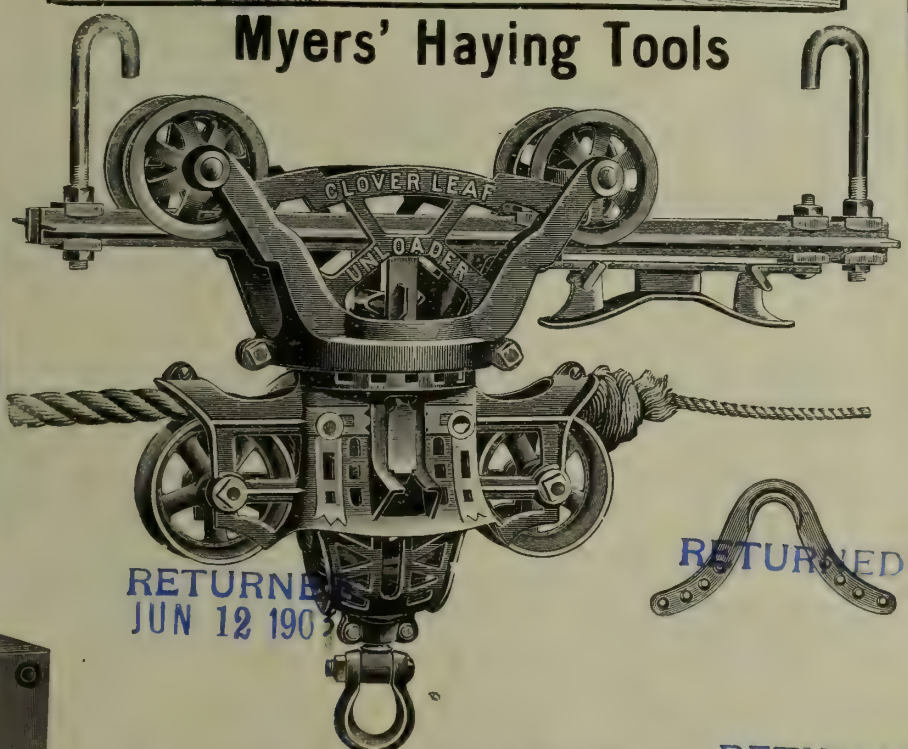


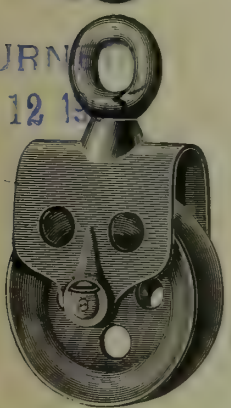


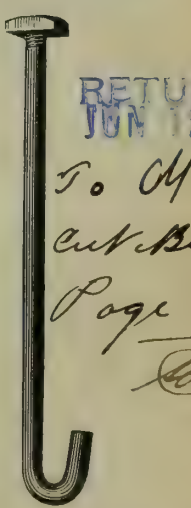




Myers' Haying Tools



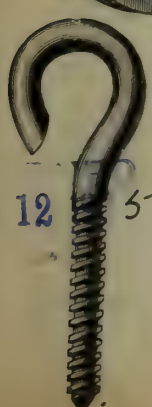














We are NOT SOLE AGENTS but our stock is complete and our prices lowest. We can fill your order quick, no matter how big it is. Test us with a mail order.

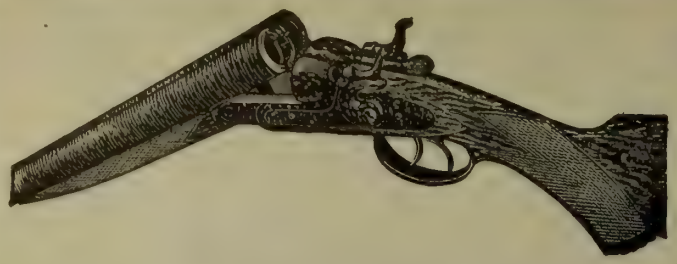
LEWIS BROS. & CO.

IMPORTERS AND DISTRIBUTORS

ALWAYS ADDRESS HEAD OFFICE AT

MONTREAL

OTTAWA. TORONTO. VANCOUVER. CALGARY.



GUNS, RIFLES, REVOLVERS

We are sole agents for one of the largest and best equipped Fire Arms manufacturers in Belgium, and can talk prices with anyone.

CORRESPONDENCE SOLICITED

E. F. WALTER & CO., 166 and 168 McGILL STREET MONTREAL

American Steel & Wire Co.

New York Empire Building | **Montreal** N. Y. Life Building | **Chicago** The Rookery

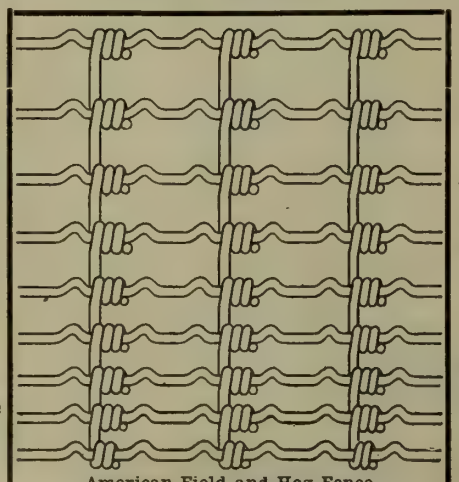
BARBED WIRE GALVANIZED PLAIN WIRE
PLAIN TWIST CABLE FENCING

Telegraph and Telephone Wire; Mattress, Broom, Weaving Wires of every description; Rail Bonds, Bale Ties, Special Wires for all purposes, Springs, Horse Shoes, Wire Rope, Cold-drawn Steel Shafting.

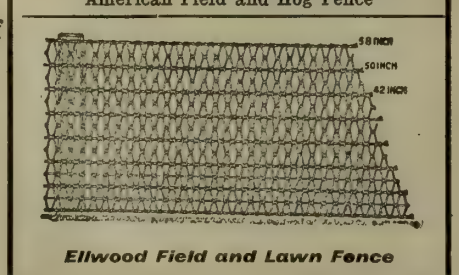
Galvanized Steel Woven Wire Fence

HIGH CARBON

The proof of the pudding is, that more of our Fences are in use than all other makes of Wire Fences Combined



American Field and Hog Fence



Ellwood Field and Lawn Fence

We call your special attention to our Extra Heavy Fence, all Horizontal Wires No. 9 Gauge. Weighs more per rod, has greater tensile strength than any other Fence on the market

If your Dealers do not handle our Fences write to us

THE CANADIAN STEEL AND WIRE CO., LIMITED
WINNIPEG, MAN. HAMILTON, ONT.



ONEIDA COMMUNITY'S WELDLESS COW TIES.

Illustration shows the

NIAGARA WIRE LINK OPEN RING TYPE

Also made in CLOSED RING, THREE CHAIN and DOMINION (or "Short") TYPES.

Oneida Community Cow Ties can be had of all the leading jobbers. We invite correspondence where any difficulty is experienced in obtaining our goods.

ONEIDA COMMUNITY, Limited
NIAGARA FALLS, ONT.

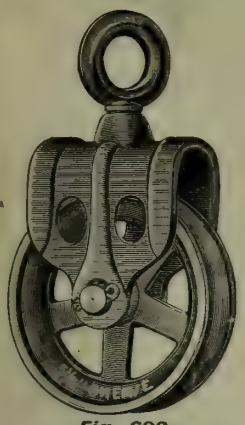


Fig. 692.
Cast Iron Pulley

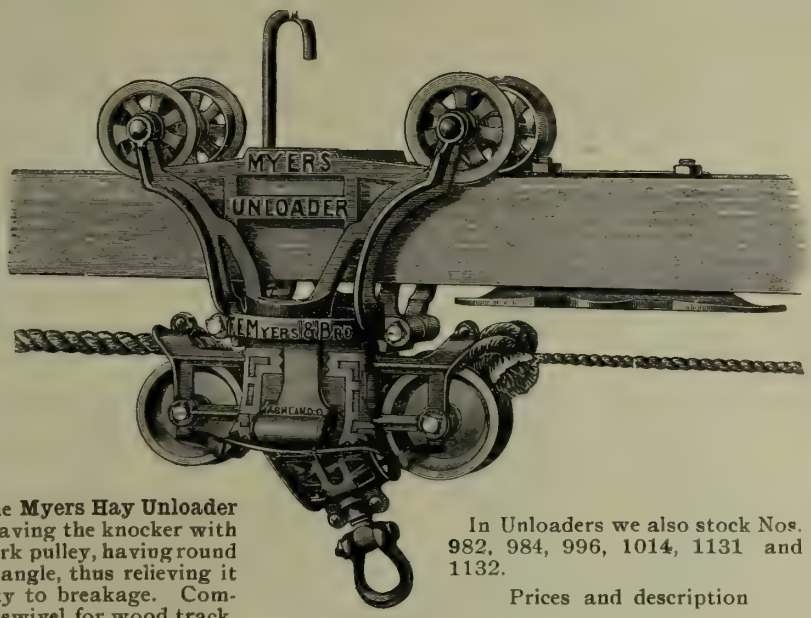


Fig. 996 illustrates the **Myers Hay Unloader** as it would appear in leaving the knocker with a swinging load. The fork pulley, having round top, can swing at any angle, thus relieving it from strain and liability to breakage. Combination, reversible and swivel, for wood track. It has seven-eighth inch turned steel axles.

Fig. 996.

In Unloaders we also stock Nos. 982, 984, 996, 1014, 1131 and 1132.

Prices and description on request.

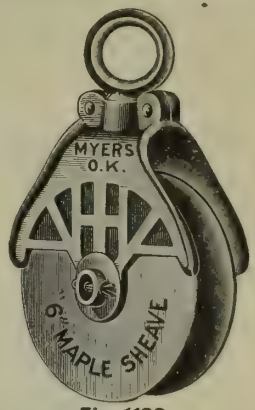


Fig. 1133
Myers O.K. Plain Pulley



Fig. 436
Rafter Bracket

MYERS' HAY TOOLS

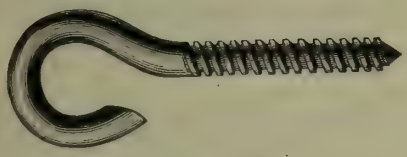


Fig. 266.
Floor Hook

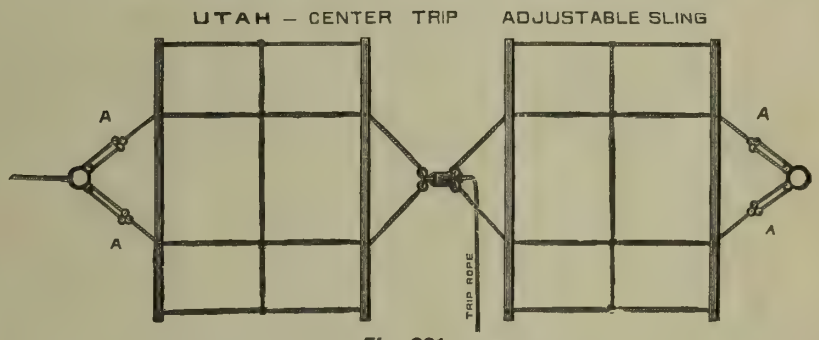


Fig. 621

Fig. 621 illustrates the **Utah Center Trip Adjustable Sling**, which has all the advantages of the Myers Center Trip Adjustable Sling, with the following changes: Instead of a three-foot cross-bar, the Utah has a six-foot, which extends beyond the side-ropes eighteen inches on either side, to which is attached an additional rope, and also a cross-rope attached to each of the main ropes, as shown in the cut. This sling really forms a net, and is designed to carry fine stuff. We also stock No. 620.

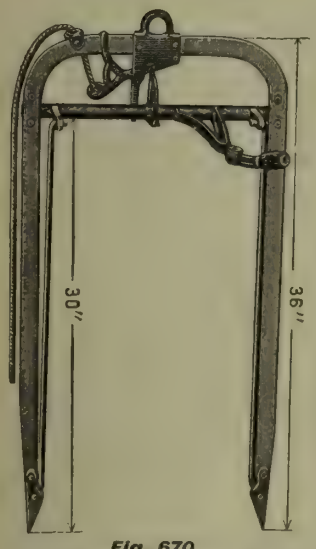


Fig. 670

Fig. 670 illustrates the **Myers Lock Lever Harpoon Hay Fork.** This fork is 19 inches wide, is made of spring steel; sets with one lever and locks open. While it is not larger than the regular double harpoon (except in width), it has 50 per cent. more capacity, owing to the cross-bar being placed nearer the top; and it gathers the grain or hay from the end of point, not two inches from the bottom, as all old-style forks do. We also stock No. 268.



Fig. 267
Wood Track Hanging Hook

Fig. 824.
Double Steel Track and Splicing Clamp.



The Hobbs Hardware Co., LIMITED

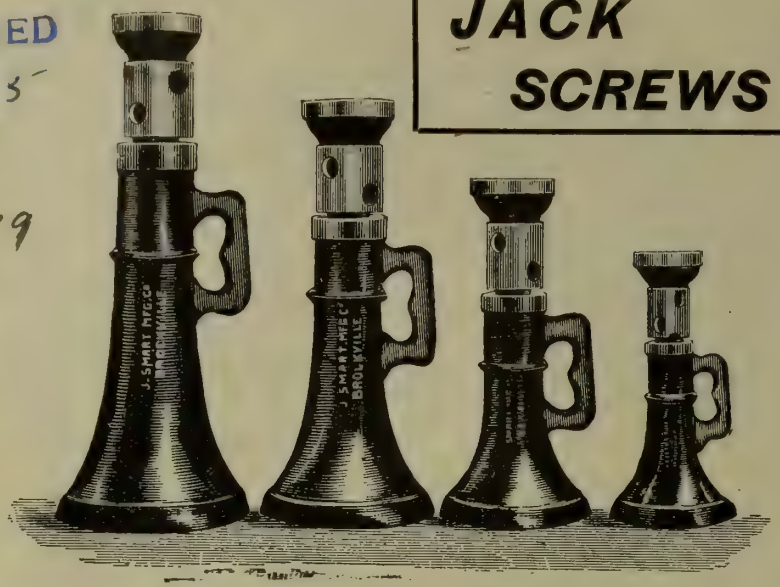
London, Ont.

Canadian Sales Agents for F. E. MYERS & BRO., Ashland, Ohio

RETURNED
AUG 2 1905
Owner
Book 39
Page 30

MADE IN CANADA

JACK SCREWS



JACKS YOU CAN RELY ON

This cut illustrates a line of **JACK SCREWS** unequalled for efficiency of service.

Cut from best refined iron, square threads, full weight Caps strengthened by wrought iron bands.

Carefully built and finely finished in every particular.

Sizes run from 1½ x 12, to 2½ x 30 inches, 10 in all.

We make also other patterns up to 3 in. diameter.

Buy these Jacks in preference to lightweight roughly made foreign articles, which may appear cheaper.

We back ours with our guarantee

THE JAMES SMART MFG. CO., Limited

BROCKVILLE, Ont., and WINNIPEG, Man.



ALL Leading Dealers handle the Best and Largest Line of Refrigerators on the market. That's **OURS**

HAM & NOTT CO., Limited, BRANTFORD, ONT.
WRITE FOR CATALOGUE.

Buy the Best.



HERCULES

Sash Cord.

Star Brand Cotton Rope
Star Brand Cotton Clothes Lines
Star Brand Cotton Twine

For Sale by all Wholesale Dealers.

Persons addressing advertisers will kindly mention having seen their advertisement in Hardware and Metal.

THIS IS THE

OLD STAND-BY

None better on the market unless it is the Triumph.

If your Jobber cannot supply, write us for prices.

NO. 233.—WILCOX TACKLE-BLOCK WIRE STRETCHER



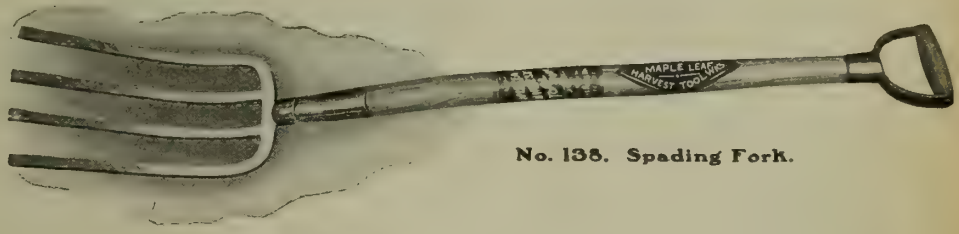
WILCOX MFG. CO. OF ONTARIO, Limited, London, Ont.

Have You Seen Them ?

For Beauty, Finish and Quality, the "Maple Leaf" Harvest Tools are unexcelled.



No. 122. Manure Fork.



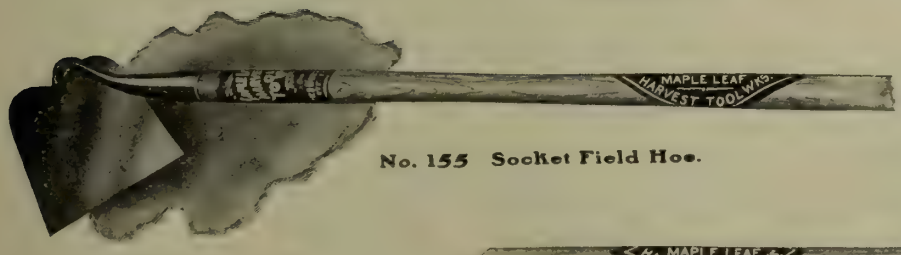
No. 138. Spading Fork.



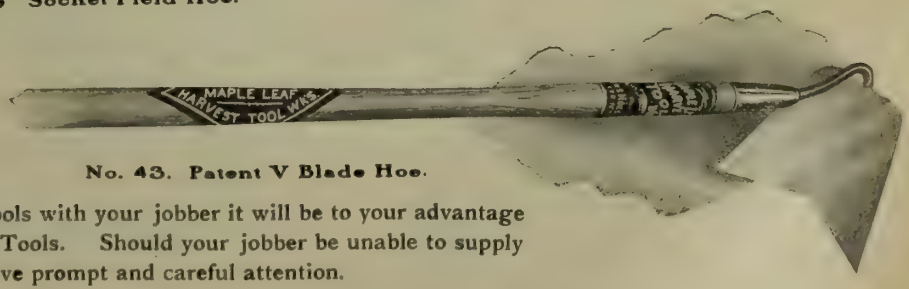
No. 243. Beet Fork.



No 108. Hay Fork.



No. 155 Socket Field Hoe.



No. 43. Patent V Blade Hoe.

TO THE HARDWARE TRADE—

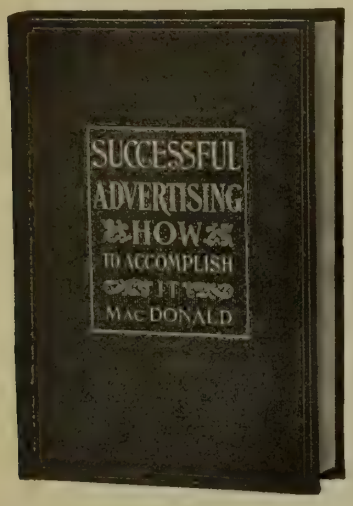
When placing your order for harvest tools with your jobber it will be to your advantage to **specify** for the **"Maple Leaf"** Harvest Tools. Should your jobber be unable to supply them, send your order to us and it will receive prompt and careful attention.

The Maple Leaf Harvest Tool Co., Limited, Tillsonburg, Ont.

SUCCESSFUL ADVERTISING

How to Accomplish It

By J. ANGUS MacDONALD



Competent critics have recognized this as the **Best Book on Advertising** yet published. It is a PRACTICAL work for advertisers and business men.

The *Brooklyn Eagle* says of Successful Advertising :

"Advertising is one of the biggest businesses—perhaps the biggest business—in the world. To treat of it comprehensively is as difficult as to treat comprehensively of military strategy or the making of a newspaper. Mr. MacDonald has succeeded. He has produced an admirable and exhaustive monograph.

"Perhaps the deepest pitfall into which an author might fall in writing upon such a subject as this is too much theory and not sufficient practicality. Most happily has Mr. MacDonald avoided this chasm: he writes from practical experience in the field, and his methods as presented have been given the thorough tests of time and circumstances.

"Any one with even a superficial knowledge of advertising cannot but perceive that in the many examples shown are evidenced a thorough knowledge of the subject and a businesslike and practical grasp of advertising which is far removed from the light, airy and entirely impractical and hare-brained stuff which is not uncommon in literature treating of the subject of advertising."

The General Advertiser, The Retail Advertiser, The Advertising Writer, The Mail Order Advertiser will find this work invaluable. The price is out of proportion to its worth. Cloth bound. 400 pages.

Postpaid $2.00 per copy

The MacLean Publishing Co. Limited

TORONTO MONTREAL WINNIPEG



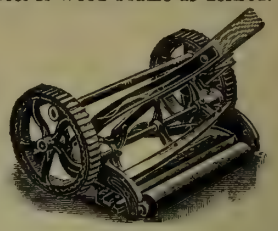
Steel Frame Support.

DAVID MAXWELL & SONS

ST. MARYS, ONT., CANADA.

"Maxwell Favorite Churn." PATENTED FEATURES: Improved Stee Stand, Roller Bearings, and Foot and Hand Lever Drive, and Detachable Driving Link. Improved for season of 1904. Steel or Wood Frame as desired.

Lawn Mowers. High and Low Wheels, from 12 in. to 20 in. widths. Cold Rolled Steel Shafting, Crucible Steel Knives and Cutting Plate.



If your Wholesale House does not offer you these articles

SEND DIRECT TO US.



MAXWELL MOWER

8-in. Low Wheel.

Wheelbarrows. In Four Different Sizes.

Before placing orders for **CHAINS** and **ANCHORS, WIRE RODS, TUBES, ETC. ETC**, communicate with :

Rd. JOHNSON, CLAPHAM & MORRIS, LTD.

MANCHESTER, ENGLAND

who will quote delivered any point as may be required.

THE ALGOMA STEEL CO. LIMITED

SAULT STE. MARIE, Ont.

is now booking orders for

STEEL RAILS

for late Summer, 1905, and early Spring, 1906, delivery. Parties intending purchasing will find it to their interests to let us have their specifications at an early date, so as to ensure desired deliveries.

DRUMMOND, McCALL & CO.

General Sales Agents

Office:
Canada Life Building, MONTREAL.

GREENING

WIRE ROPE

All kinds and sizes and for All Purposes.

STANDARD AND LANG'S PATENT LAY

ROPE FITTINGS ROPE GREASE

PRICES RIGHT **PROMPT SHIPMENTS**

THE B. GREENING WIRE CO.
LIMITED
HAMILTON, ONT. MONTREAL, QUE.

Dillon Hinge-Stay Fence

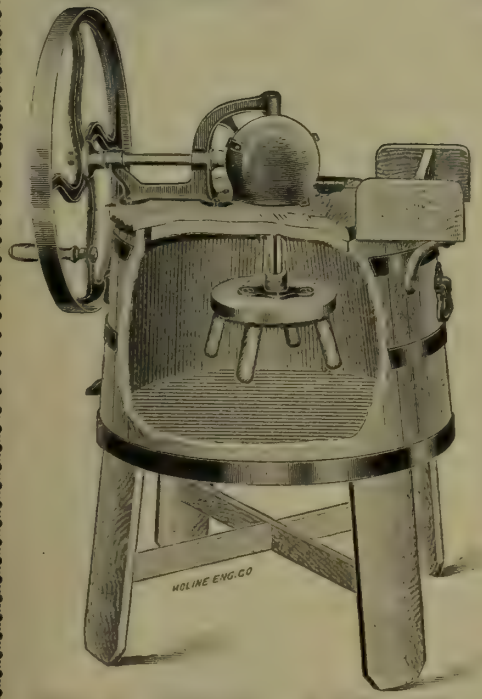


Don't let YOUR farmer customer go to the OTHER Hardware for his fencing because you have none. If so, he is likely to get his Stove, Harvest Tools and other goods there, too.

Put in a small attractive stock of our 1905 DILLON fencing, keep it where it can be seen and it will attract farm custom. Good margin in it for you, too.

OWEN SOUND WIRE FENCE CO., LIMITED,
Owen Sound, Ont.
MESSRS. CAVERHILL, LEARMONT & CO.,
(Eastern and Western Agents,) **Montreal and Winnipeg.**

1905 Ocean Wave Washer



Accident Proof! Dust Proof!

SPECIAL FEATURES:

1st. Covered Gearing
which can be opened instantly to expose working mechanism.

2nd. Improved Dasher
We do not use **wooden** Dasher Pole.

3rd. Mechanical Movement Most Simple ever Constructed.

4th. The Best Seller
because it is more attractive than others.

Sold to only one dealer in each town.
Trial Order will convince.
Write us.

VOSS BROS. MFG. CO.——DAVENPORT, IOWA, U.S.A.

John Round & Son, Limited

Manufacturing
GOLDSMITHS and SILVERSMITHS
Contractors to
H. M. ADMIRALTY & WAR OFFICE

REGISTERED TRADE MARKS
ESTABLISHED 1847

Tudor Works:
SHEFFIELD, England
and
112 HATTON GARDEN, LONDON



31520.—ENTREE DISH

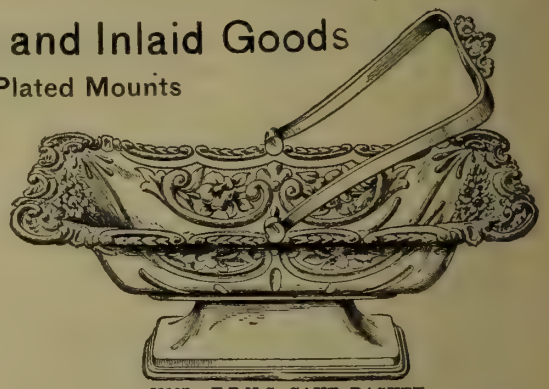
Manufacturers of all Kinds of GOLD, SILVER
ELECTRO PLATE ON NICKEL
and BRITANNIA METAL GOODS
Silver and Plated Cutlery
Steel Cutlery, Oak and Inlaid Goods
With Silver and Plated Mounts

Our Manufactures have a world-wide reputation of over 50 years' standing. We are the largest makers of spoons in the world.

WE WANT TO MAIL OUR CATALOGUES TO ALL CANADIAN DEALERS
WILL YOU SEND US YOUR NAME?

HOTEL and SHIP'S OUTFITS, special goods for hard wear
Special designs for all purposes supplied free

WHATEVER YOUR REQUIREMENTS ARE DROP US A LINE



31197.—E.P.N.S. CAKE BASKET

BOSS EXTERNAL GEAR

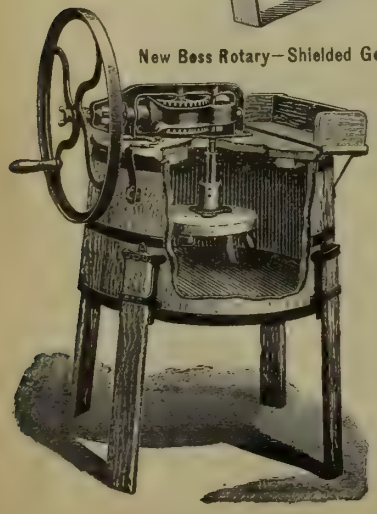


The World's Most Famous WASHERS

1904 AUTOMATIC



New Boss Rotary—Shielded Gears



Made by the largest Washing Machine Factory in the world. Capacity, 600 machines per day.



Exclusive Agencies Given

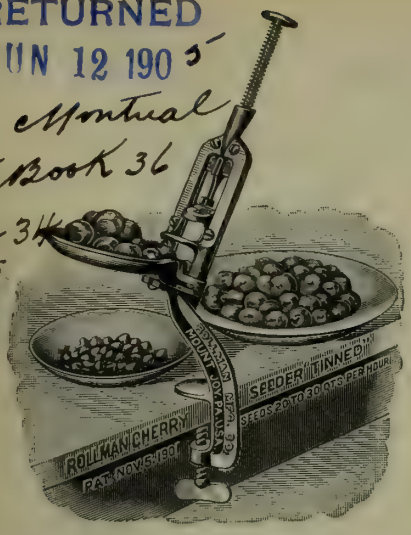
Write at once and secure agency, thus protecting your profits by avoiding competition. Address

WALTER WOODS & CO.
either at **HAMILTON** or **WINNIPEG.**

MANUFACTURED BY

BOSS WASHING MACHINE CO.
CINCINNATI, OHIO, U.S.A.

RETURNED
JUN 12 1905
To Montreal
Book 36
Page 34



EVERY BITE A STONE IN A CHERRY PIE!

F. & W.

No doubt you remembered the experience for many days. Your customers have the same experiences, and such annoyances take away all the pleasure of eating the pie. You have still time to get in a stock of **Rollman Cherry Seeders,** the simplest, most durable and profitable on the market. Put some in your window with the above phrase on a card to attract attention, and see them go.

For price write us or ask our travellers.

Frothingham & Workman, Limited

Wholesale Hardware and Iron Merchants, - - Montreal, Canada.

For 96 Years Sellers of Hardware.



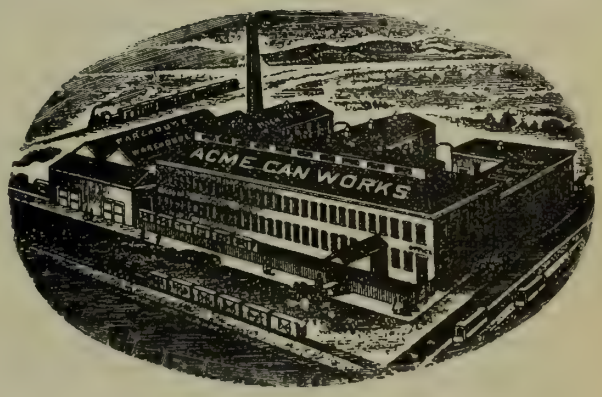
DELIGHTED

Bridget will be delighted with the Russwin Food Cutter. It makes her work easier, pleasanter—gives widest scope to her skill, and does most in least time. Just try it. For sale everywhere. Made by

RUSSELL & ERWIN MFG. CO.
NEW BRITAIN, CONN.

—FOR SALE BY—

The KENNEDY HARDWARE Co., Limited
49 Colborne St., TORONTO, Ont.



When in Need of Cans, Serve Your Best Interests and Consult Us

Acme Can Works

make the largest assortment of any factory in America of TIN CANS by the latest up-to-date automatic machinery.

We are the only makers in Canada of KEY-OPENING MEAT CANS, POULTRY CANS. They are our specialties.

Manufacturers for Canada of—

Jewett's Self-Heating Can.

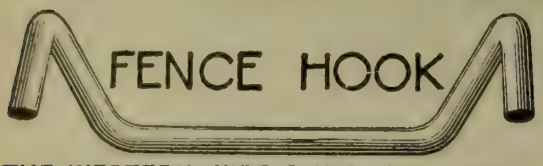
We solicit inquiries for prices on

Baking Powder, Oil, Syrup, Lye, Paint, Varnish, Condensed Milk, Poultry, Fruit, Vegetable } Cans

Lard, Syrup, Butter } Pails

ACME CAN WORKS
Ontario Street East, - - MONTREAL, P.Q.

GALVANIZED FENCE HOOK FOR FASTENING WOODEN PICKET ON WIRE FENCES



WIRE NAILS, COILED SPRING, BARB and PLAIN FENCE WIRE, OILED and ANNEALED, CLOTHES LINE WIRE, STAPLES, etc.

THE WESTERN WIRE & NAIL CO., Limited, LONDON, ONT.



"LITTLE SHAVER"

A handy kitchen utensil for scraping chocolate, slicing small fruits and vegetables. Sells well at all seasons because always useful. Made of hardwood. Blade of finely tempered steel.

Dealers write for prices to

J. M. MAST MFG. CO.,
LITITZ, PENNA., U.S.A.

GLAZIERS' DIAMONDS

Sharratt & Newth
43 and 44 Percival Street, · London, England
Contractors to H. M. Government and the Principal English Sheet and Plate Glass Works.
Established 1815

ALSO
Lead Vices,
Carbon Tools,
Etc., Etc.,



Agents for Canada: **A. Ramsay & Son Company, Montreal**

GLAZIERS' DIAMONDS



Ahead of all others in **quality** and **workmanship**. If **sparks** of **fine quality**, **set by experts**, are what you require, buy Diamonds of **A. Shaw & Son's** make.

Canadian Agent
GODFREY S. PELTON
388 ST. PAUL ST., MONTREAL

CELEBRATED HEINISCH SHEARS

Tailors' Shears,
Trimmers' Shears,
Tinners' Snips, etc.



ACKNOWLEDGED THE BEST.

R. HEINISCH'S SONS CO.
NEW YORK OFFICE, 155 Chambers St
NEWARK, N.J., U.S.A.

HENRY T. SEYMOUR SHEAR CO. NEW YORK.
TRADE MARK

SEYMOUR SHEARS

HAVE BEEN THE
Standard for over Half a Century.
"QUALITY UNQUESTIONED."
Each pair of our shears bears the above trade mark.

HENRY T. SEYMOUR SHEAR CO. NEW YORK.
TRADE MARK



Latest Catalogue will be sent in exchange for your business card.

Complete Line *TRIMMERS', BANKERS', BARBERS' and TAILORS' SHEARS, Etc., Etc.*

Henry T. Seymour Shear Company
WIEBUSCH & HILGER, Limited, NEW YORK, Sole Agents

Mr. Dealer:



Do you know there's a demand for a *good* steam cooker which you should supply? The profit on goods you are "out of" will never come back. We prefer to sell a progressive dealer rather than direct.

IDEAL STEAM COOKERS

are advertised thoroughly in all the national publications from Ladies' Home Journal down. Get our proposition—it means profits—*Dollars*—to you. We are the largest manufacturers in the world. Our lines are complete. We make all good kinds—Square (with whistles) Round (with whistles) in all desirable sizes, at all prices. 36-PAGE BOOK FREE—Write for it to-day, with confidential prices to dealers.

J. A. Ross
Sole Canadian Agent
141 Bannatyne Ave.
Winnipeg, Man.

MAPLE LEAF
STITCHED COTTON DUCK
BELTING
DOMINION BELTING CO. LTD.
HAMILTON CANADA

Canadian Oil Gusher

Oil Well Cables

Sand Lines

Sucker Rod Lines

Torpedo Lines

Bull Ropes



Oil Well Cables

Sand Lines

Sucker Rod Lines

Torpedo Lines

Bull Ropes

THIS WELL WAS BORED WITH ONE OF OUR CABLES.

Consumers Cordage Co., Limited

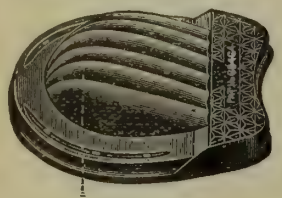
MILLS: MONTREAL and HALIFAX.

BRANCHES.

W. A. C. HAMILTON, Toronto, Ont.; MERRICK, ANDERSON & CO., Winnipeg, Man.; F. H. ANDREWS & SON, Quebec, Que.; MacGOWAN & CO., Vancouver, B.C.; CONSUMERS CORDAGE CO., Limited, St. John, N.B.; GEO. WOOD, London, Eng.

THE CANADIAN RUBBER CO. OF MONTREAL
TRADE MARK

Look for this Trade Mark on every Pad.



See that Cushion?
It fills with air at each step.
That's what breaks concussion.
That's what prevents slipping.
That's what keeps the foot healthy.
That's what cures lameness.

Sort Up Your Stock

Ever Think of **HORSE SHOE PADS** as a Stock Line?



Summer days are here. Horse Shoe Pads sell like hot cakes these out-door months of May, June and July. Write any of our Sales Branches for illustrated descriptive literature on our full range of Horse Shoe Pads. :: :: ::

Horse Shoe Pads lengthen the life of a good horse; improve a poor horse out of sight.

Sales Branches and Warehouses:

172 Granville St., Halifax, N.S. | Imperial Bank Building, Montreal, Que. | Front and Yonge Sts., Toronto, Ont. | 89 Princess St., Winnipeg, Man. | 403 Cordova St., Vancouver, B.C.

The Canadian Rubber Co. of Montreal

LIMITED

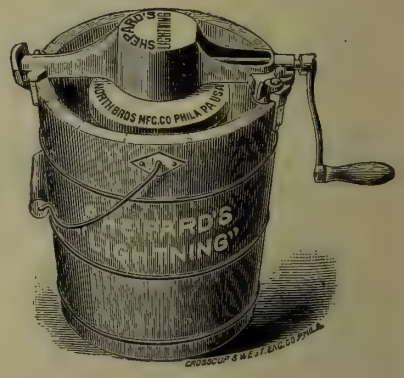


Novelty Refrigerators and Water Coolers

Made of Heavy Galvanized Iron. Finished in Oak with Gold Bands. Nickel Plated Faucets. 3 sizes.

Ice Cream Freezers

We handle the "Lightning" Quadruple Action Freezer. Sizes 2 to 20 quart—the best on the market to-day. Also the "Blizzard" Single Action Freezer. Sizes 2 to 10 quart.



For a low priced freezer there are none better than the "Blizzard."

WE WILL BE PLEASED TO QUOTE YOU

KEMP MANUFACTURING CO., TORONTO, ONT.

THE KEMP MFG. AND METAL CO., LIMITED,
McDermot Ave. East, Winnipeg, Man.

THE KEMP MFG. CO. OF MONTREAL,
58 McGill St., Montreal, Que.

STORE INTERIORS AND SHOW WINDOWS

IN a recent address on "How to fit up a Hardware Store," Mr. H. P. King, of Portland, Maine, said the most important point to remember was to make the fixtures fit the goods rather than buying shelving by the running foot and expecting it to be as well adapted to 21-inch wrenches as it is to 6-inch slim taper files.

First make a plan of your available floor space, then a complete list of goods to be kept in this space. In dividing the space to fit your goods bear in mind the idea of using different methods of keeping different classes of goods and thereby utilizing every available space. For instance, car bits will fill a shelf its full depth, but gimlet bits, faced up, will waste much room behind them. In such instances, and many others easily thought of, the use of drawers will be found very advantageous, particularly the galvanized iron drawers, sub-divided for smallwares, like bright wire goods, wrought goods, etc. Not only does a drawer save space, but it brings to the customer at once numerous sizes from which to select, and avoids the necessity of opening boxes and the possibility of mixing covers in replacing, and also keeps the goods as clean and free from dust as if in their original packages.

One recommendation for drawers not to be treated with slight consideration is the improved appearance they give to the store. All of our

Best Stores in Every City

attain much of their reputation and rank by the impression they make on the eye of the general public by their neat appearance, systematic arrangement, and up-to-date fittings. Even the color scheme is not lost, and the difference between a nicely finished natural wood drawer front, with a pull and label holder, and the old style box covered with green paper with a sample of the contents wired on the front is striking.

Wasted space is not the only objection to facing up small boxes on shelves; it often results in goods being misplaced, stock reported out and not found until inventory. In caring for heavy goods not boxed or wrapped by manufacturers, drawers and shelving are not adaptable; bins are more available, either with or without sliding doors, preferably the former. In deciding upon space to be used for

Shelving, Drawers or Bins

there are these considerations: 1. Classification of goods; tools, house trimmings, miscellaneous hardware, etc. 2. Location of goods for convenience in handling and selling, as, for instance, heavy goods near the floor; goods most often called for nearest at hand.

With the various kinds of rolling ladders now in the market every store can use entire wall space, but light goods would naturally take the top shelves.

Quite as important as the system in the arrangement of goods is the system of sampling them. Any line of goods which includes many sizes or styles ought to be displayed for two reasons—your convenience and the customer's satisfaction. As a convenience it

Saves Time and Labor.

of the clerks; as a satisfaction to the customer it furnishes an opportunity for him to see all that you have, and avoids his having a feeling that he might have bought something more satisfactory if he had been shown the full assortment.

A sample with the price attached (marked in plain figures) is also an advantage in aiding the customer to decide quickly on the style of article wanted.

Method in sampling goods is in itself a subject that is worthy of discussion; but one principle ought to prevail in every method—place the samples where they can be easily seen and examined by the customer. Goods on drawer fronts eighteen feet from the floor make a display, but of what use are they to the customer unless brought within reasonable distance?

A traveling man with a line of samples is more entertaining than one who shows only a catalogue—the

Goods Speak for Themselves

but what persuasive power is there in woodcuts? Why do all hardware stores sample their line of pocket knives and scissors? How much business would be possible if a few samples were displayed and the other patterns shown only on request of a customer? The principle applies to all lines of goods with equal effect, but the execution of the idea may be extended more or less, according to the space to be used.

Customers waiting to be served often see articles that interest them and buy the same, having had no intention of making such a purchase when coming into the store. In cities having a foreign population some customers can only make their wants known by pointing to the article wanted; they have no knowledge of hardware terms and often cannot speak our language.

We all know the value of window displays and someone has referred to

Showcases as Silent Salesmen.

The public like to look; give them a chance, and provide show windows, wall cases, floor cases, sample boards, either hung like doors or arranged as slides in cases; floor stands and other special devices for displaying particular lines of goods. Here is the opportunity for one to show ingenuity and individuality, to bring into action the result of observation and study, and to produce the best that can be provided under the circumstances, be they restricted or otherwise.



Silverware display of Queen City Cutlery Co., Toronto.

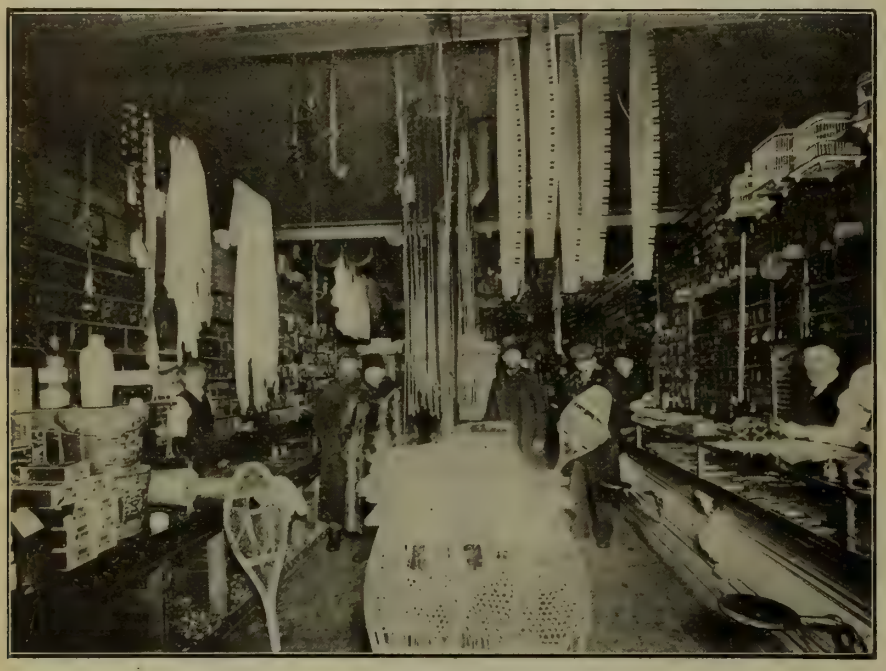
The subject of fixtures for show windows deserves much careful thought, for upon these fixtures depends largely the success and attractiveness of the display. The windows are used for such a variety of goods that many devices are necessary, such as hanging shelves, shelves or brackets that may be adjusted to different heights and angles, swinging wall brackets and various forms of false bottoms to be used as the window dresser may see fit. Mirrors add much to the attractiveness of any store window, and may be used with good effect in displaying certain lines.

Show cases for wall or floor are very important adjuncts to the list of fixtures, and the interior fittings of these cases are of endless variety, and should be selected for their adaptability to the many changes in the goods to be shown in the case from time to time. One of

The Elements of Success

in the modern department stores is the fact that they have extensive floor space and numerous counters with goods exposed, so that the customer may examine them and the clerk can make a sale without climbing a ladder, reaching down behind the counter, or going into the cellar or some other part of the store to get the goods wanted.

Conveniences in a store are like comforts in a home. Why is it not as necessary to have one as the other if you are to enjoy life? As to the results financially, there is no question of success; time proves it in various ways—larger sales, better profits, the commendation of the public, the congratulations of your regular customers, greater interest among your clerks and a feeling of conviction in your mind that the hardware business is not altogether a grind, but is really worthy of a man's best thought and furnishes many an opportunity for indulging in higher aims and loftier ambitions.



Devine & McGarry's Store, Renfrew, Ont.

JUNE WEDDING WINDOW.

OUR window illustration this week is seasonable and attractive, Mr. I. A. Tobias, manager of the Queen City Cutlery Co., stating that large numbers have been drawn from Queen street to his store on Spadina avenue on account of the brilliancy of the display of cutlery and silverware shown. The photograph was taken at night and to avoid the glare of the electric lights, had to be taken some distance away from the window. The detail, therefore, is not so good as it would otherwise have been. The effect is also marred by the heavy pillar which cuts the corner off the window.

The dressing, however, is commendable, the finest sateen being used to give a bright and cleanly appearance. Well-written showcards in black and gold also do much to illustrate the purpose of the dresser in suggesting fine presents for wedding celebrations. It will be seen that the pyramid of sateen-covered shelves is surmounted by a massive oak cabinet containing 104 pieces of silverware, below this being an assortment of carving sets in plush cases, and other case goods, such as berry spoons, gravy and soup ladles, oyster and cold meat forks, pie knives, ice tea and orange spoons, fruit sets, etc. The goods are all of the highest quality and, were the display made on a better business street, the results should be very satisfactory.

As Mr. Tobias says, it is comparatively easy to dress a nice window, but the difficulty is to do it economically and catchy enough to bring satisfactory results. Location counts for a good deal as the people who use one street are often far poorer buyers than those who use another near at hand.

Silverware and cutlery being standard lines in hardware stores, other merchants can use these goods to advantage in similar displays, the effect being far more cheery and attractive than the majority of windows seen in hardware stores. The season for cutlery and silverware is rapidly nearing and in stocking up for the Fall and Winter trade, merchants would do well to make a mental memorandum to use a similar window and thus enhance the appearance of their stores.

A REMINDER OF WINTER.

THE illustration of the interior of Messrs. Devine & McGarry's retail hardware store, Renfrew, shown herewith, is a reminder of the cold days of the Winter months when snowshoes were used for pleasure in the cities and for more practical purposes in the lumber districts of Northern Ontario. The saws hanging from the ceiling also suggest the proximity of forest wilds, while the cluster of whips and the packages of stock food indicate that the merchants are up-to-date in their endeavor to catch all the available dollars their customers have to spend.

The double counters, provided with swinging seats, the showcases, the arrangement of the shelving and boxes, and the rows of white wash brushes, bird cages, tinware, ropes, straps and sleigh-bells, together with the nail compartments under the counter, show the merchant's desire to use every available inch of space.

It is in the northern districts where snowshoes and fur coats are necessary articles of daily use that some of Ontario's most progressive and best paying hardware stores are found, Messrs. Devine & McGarry having won a fair reputation for themselves in this respect. Hardware and Metal hopes to publish some views of Western Ontario stores shortly, having invited merchants in Guelph, London, Windsor and other places to furnish photos and having received some fine views from Port Arthur.

PROPER USE OF STORE WINDOWS.

ONE writer has said that advertising is the work by which we recognize the progressive business man; not merely the cold type advertisement, but the advertisement of a store filled with merchandise well selected, well bought and well displayed. As a matter of fact, the printed ad. wins only so far as it brings customers to the door. There they may halt and turn away, if the appearance of the store window is not inviting.

A window either repels or attracts. Which is does rests entirely with the merchant. For instance, there are windows which in Summer seem to be devoted exclusively to fly-paper demonstrations, and in Winter to the exhibition of theatrical posters. Some merchants use their windows for storing surplus stock, and there are a few who dare to obscure their store fronts by piles of boxes and barrels on the outside.

It goes without saying that no amount of newspaper advertising can overcome the repellant influence of such store fronts.

Whether or not a store window is an effective selling agent depends upon the display made in it. Some windows don't cost one-tenth as much as others and yet are a thousand times more effective.

What constitutes the difference? Is it novelty? Attractiveness of design? Uniqueness of arrangement? Is it the merchandise? Is it the appeal to curiosity? It is any or all of these—and yet it is none of them.

The selling power of the window depends upon what it suggests to the onlooker. It must tell a story that will take the mind of the observer across the threshold. It must create a desire that the inside of the store alone can gratify. It should be a magnet that halts the passerby and ultimately pulls him to the counter.

Through the force of suggestion it

WIRE NAILS
TACKS
WIRE
Prompt Shipment
The ONTARIO TACK CO.
Limited.
HAMILTON, ONT.

must appeal to the gazer's imagination, reason or emotion. It must recall an old want or inspire a new one; and it must leave the impression that the want can best be satisfied just behind the window.

One of the commonest errors in window dressing is overdoing it. Too many different kinds of goods in the display overwhelm the onlooker. Too much decoration distracts him. No one can well listen attentively to two persons talking, still less to a crowd.

The success of a window display, that is, its business-pulling success, depends entirely upon the amount and quality of the suggestion. If a display can be fixed up that will tell at a glance the right kind of a story, the merchant will have a window that will put dollars into the money drawer.

REFRIGERATORS IN WINDOWS.

Refrigerators are a favorite for window trims because they are large enough to fill a window and require little "fixing up." It is a mistake, however, to put a bare refrigerator in a window.

A better way is to call attention to its good points. Put the front toward the glass, of course, and open the doors. If the ice compartment opens at the top you can get the ice grate out and show it by leaning it against the refrigerator. Then put in placards or arrows calling attention to the good points of the refrigerator.

Put a placard on the side showing what the walls are composed of and just how thick they are. Call attention to the lining, the size of the interior, the waste pipe trap, the shelves in the compartments for food, etc., etc. If you wish you can put a supply of green vegetables, fresh meat, milk, etc., in the refrigerator and fit a pane of glass over the door opening. Then keep a chunk of ice in the ice box and show how well the stuff keeps underneath. This would be especially good in hot weather.

EXCELLENT DISPLAY SYSTEM.

M. Isbister & Son, hardware merchants, Saskatoon, Assa., have adopted an excellent system for the display of light goods which would well be worth copying. A succession of swing doors covered with green baize cloth is fixed up in front of the stock drawers and samples of the stock neatly arranged over the doors. The effect is very good, and the utility of this system should readily appeal to hardwaremen.

A SCREEN DOOR WINDOW.

A window screen display which attracted considerable attention a couple of weeks ago was shown in the window of W. R. Hobbs' hardware store at Tillsonburg. A number of screen doors and windows were arranged on a pivot which revolved continuously showing the screens to advantage and drawing attention to the other Summer goods shown in the background.

WINDOW WISDOM.

A traveler the other day said that city people "rubber" more into windows than do those in smaller towns. Do they? or is it because they have more reason to? Sad to relate many of the stores in the smaller places do not realize the value of window display and the public has ceased to look for it. The value of a well-trimmed window is beyond dispute. If it were not, would city stores spend thousands and thousands of dollars on their windows each year? We guess not.

Well trimmed is half sold.

A trim in the window is worth two in the store.

If at first you don't succeed (in making a good trim), try, try again.

A fine trim is lost behind a dirty window. Now is the time to wash the glass.

Sell Sherwin-Williams
Modern Method Floor Finishes
and get the Floor Finish business in your locality.

Finished floors are the fashion and the floor finish trade is becoming a larger source of profit to the paint dealer each season.

S-W. Modern Method Floor Finishes represent a complete line of finishes for any floor, any style. They meet the demand for good floor finishes. *Sherwin-Williams advertising methods* will stimulate this demand in your locality and enable you to get the lion's share of the business. *Sherwin-Williams quality* will hold it.

Write today for prices.

THE SHERWIN-WILLIAMS CO.
PAINT AND VARNISH MAKERS
Headquarters and Plant: 639 Centre St., Montreal
Warehouses: 86 York St., Toronto; 147 Bannatyne St., East, Winnipeg.
1426

DIAMONDS FOR SAW TEETH.

E. C. ATKINS & CO., the enterprising saw manufacturers of Indianapolis, Indiana, have recently turned out some circular saws studded with diamonds, a comparatively new departure in the saw line. The diamonds, while rather expensive, are not intended for decoration, as might be supposed, but are used for a highly practicable purpose. The saws just finished ranged in size from 60" to 75" in diameter, and are to be used for sawing stone. They have proven very satisfactory wherever used. This style of saw is known as the "Scotch Saw," and is specially designed for machines made in Scotland.

Instead of being fitted with sharp teeth like the ordinary saw, these "saws" are large discs with about 150 sockets $\frac{3}{4}$" deep by $\frac{1}{2}$" wide, and $1\frac{1}{4}$" apart around the outer circumference, into which are inserted little steel blanks or teeth which project about $\frac{1}{8}$" from the edge of the blade. The teeth are about 3-16" thick, and conform to the exact thickness of the blade. In the top surface or edge of each tooth is imbedded a black diamond about one-half karat in size. These diamonds are set in various regular positions, that is, in one tooth the diamond would be at the right edge, in the next tooth about the centre, in the next at the left edge, in the next in the centre, and so on. Being set in this manner the diamonds take the place of teeth in the ordinary saw, and when in contact with the stone will saw a kerf about $\frac{1}{4}$" wide.

The diamonds used in these saws come from the South African diamond mines, and cost about $6 each, and the value of each completed saw is in the neighborhood of $100.

CATALOGUES, BOOKLETS, ETC.

When sending catalogues for review, manufacturers would confer a favor by pointing out the new articles that they contain. It would assist the editor in writing the review.

Silver-Plated Ware.

Of all the catalogues received during the past month, one issued by the Toronto Silver Plate Co. is undoubtedly one of the most serviceable to hardware dealers. It is catalogue No. 21, and comprises 40 pages and cover, ten by 14 inches. All types of flatware are illustrated in abundance, many new lines being included. As the season for ordering the Winter stock is near at hand, this catalogue should be in the hands of every hardware dealer who handles cutlery and plated ware. When sending for a copy mention Hardware and Metal.

Specialties Catalogue.

A very comprehensive book has been received from W. H. Glenny & Co., Rochester, N.Y., over 100 illustrations being given of specialties which can be handled profitably by hardwaremen. Kitchen novelties, garden needs, and household requisites are illustrated in great variety. Merchants who send for a copy will favor us by mentioning Hardware and Metal when writing.

Doe-Wah-Jack Calendar.

One of the handsomest calendars received by Hardware and Metal this year was received last week from the estate of P. D. Beckwith, Dowagiac, Michigan, manulacturers of "Royal Oak" stoves and furnaces. The calendar is about 12 x 24 inches, the illustration being the head of an Indian, the figure being in copper with embossed surface, the only printing on the calendar being the words "Doe-wah-jack," and "1905," besides the monthly slips, which are in old style letters and figures. They will be sent to the trade as long as they last. Mention this paper when writing.

Warm Weather Goods.

The McClary Mfg. Co., London, have issued a handy catalogue of warm weather goods for the kitchen, the lines illustrated including gas and oil ranges and stoves, gasoline stoves, ovens, heaters, kitchen utensils, freezers and refrigerators. The catalogue should be in the hands of every Canadian hardwareman, and can be secured by writing the McClary Co., and mentioning Hardware and Metal.

Roofing and Siding.

The Galt Art Metal Co. have issued a neat 24-page and cover catalogue of the metal roofing and siding manufactured by them. Their "sure grip" shingles are illustrated, showing the locking principle, and various views of the siding are given. The methods of using corrugated iron are shown in detail, together with much information regarding estimating the amount necessary for a given job. Mention Hardware and Metal when sending for a copy.

Black Diamond Files.

A pocket-size catalogue of 48 pages and cover, recently issued by G. & H. Barnett Co., the Black Diamond File Works, Philadelphia, Pa., is the second edition for 1905, the first number being printed in 1891. The book is printed on fine paper, with a substantial cover, and is replete with illustrations of files and rasps, as well as sections showing the shape, dimensions and patterns of the various lines. The book is valuable to all sellers and users of these goods, and a copy will be sent free to any merchant who mentions this journal in a letter of inquiry.

There are ***HAMMERS*** *that "Knock," and there are* ***HAMMERS*** *that convince. We employ the convincing kind; for instance, we say contact with the Hammer will not discharge an*

IVER JOHNSON REVOLVER

And then we use our ***HAMMER*** *just to demonstrate the truth of our assertion. We call this a convincing argument, not "Knocking."*

Hammer the Hammer



Send for literature.

IVER JOHNSON'S ARMS & CYCLE WORKS,
FITCHBURG, MASS.
New York Office: No. 99 Chambers Street.

Curry Combs.

F. E. Kohler & Co., Canton, Ohio, manufacturers of hardware specialties, have issued a neat 24-page and cover booklet, illustrating their line of curry combs, the assortment shown comprising all the standard types as well as many new and popular improvements. Merchants who handle horse goods and supply a farming trade should have a copy of this booklet, a copy of which can be secured by sending a postal and mentioning the name of this paper.

Wire Ropes.

The Dominion Wire Rope Co., Montreal, have published a convenient sized 72-page and cover catalogue of their iron and steel wire ropes, the booklet containing a large amount of valuable information, as well as many tables giving sizes and prices, and illustrations showing the construction of the different sizes of ropes and cables. The accessories required are also described, and cuts showing the workings of the various lines are produced. Hardware merchants will find the catalogue a valuable addition to their shelves. When sending for a copy mention this offer in Hardware and Metal.

Siche Gas.

The Siche Gas Co., Toronto, who are installing a $1,000 system of lighting in the Royal Muskoka Hotel at Lake Rosseau, to act as an auxiliary for a $9,000 electric plant, have issued a 24-page and cover booklet giving an abundance of information explaining the Siche system and its points of difference from other apparatus considered as dangerous by the general public. As Siche gas is now a standard article, and has won its way into the cooking as well as the lighting field, it behooves hardwaremen to inform themselves as to this safe and cheap system of store and house lighting. If Hardware and Metal is mentioned a copy of the book will be mailed post free.

Map of Manitoba Free.

The Winnipeg Paint & Glass Co., of Winnipeg, are distributing to the trade a handsome and convenient vest pocket map of Manitoba. Ask for one, mentioning this paper.

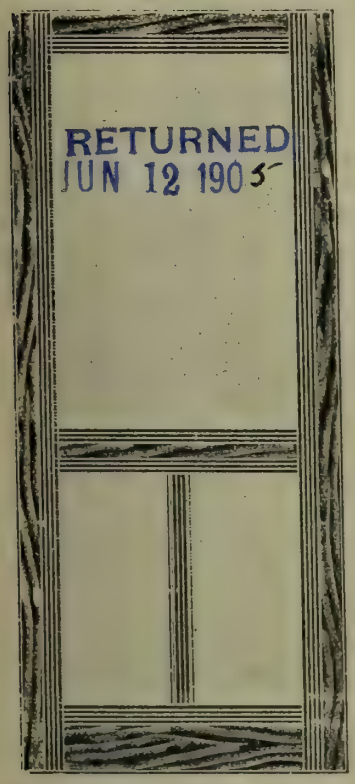
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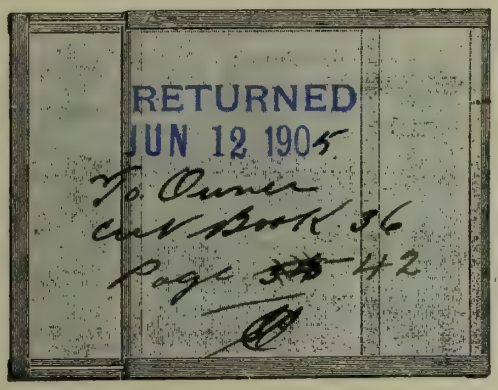
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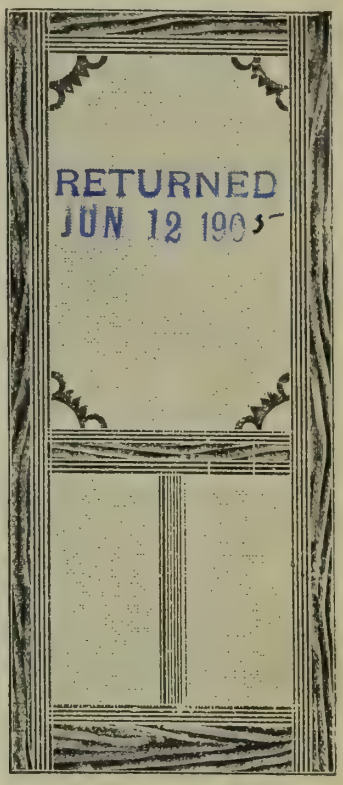
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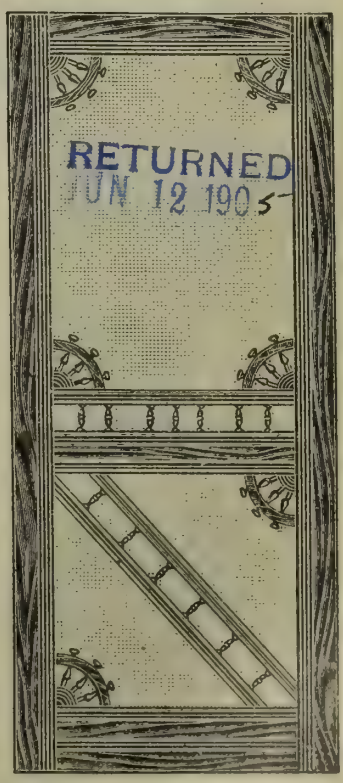


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THE JAMES MORRISON BRASS MFG. CO., LIMITED, TORONTO

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HEATING AND PLUMBING

PLAIN TALKS ON PLUMBING, HEATING AND VENTILATION

A Series of Practical Articles Written in Plain Terms, Devoid of Technical Phrases, Algebraical Signs, etc., so as to be Easily Understood by all Interested in these Subjects.

By M. J. Quinn, Mechanical Superintendent for the Ontario Government.

[Registered in accordance with the Copyright Act]

Article VI.

HEATING SYSTEMS.

THE problem of laying out a system of piping for a hot water heating plant is very often a serious one for the fitter; a small mistake in calculation, a pipe improperly connected, or graded, may cause him untold annoyance and expense.

As in most other callings, experience counts for a great deal, and helps one in forming a judgment, but in the heating business it sometimes comes high, for it may have been gained by having to take out and entirely remodel one or more plants, but even at that cost the expense will not have been in vain, if the fitter will give a sufficient amount of time and attention to studying the cause of his failure.

There is, perhaps, a sufficient excuse for the lack of knowledge of detail on the part of most fitters, and that excuse is based upon the fact that most, if, indeed, not all, works upon the subject of their calling are written in a more or less technical style, so that, not having had, in most cases, the advantage of a high class education, they are unable to arrive at correct conclusions regarding the meaning of most of the formulas given in such works.

For the assistance of such men it is the intention to publish from time to time sketches and hints upon hot water and steam heating plants, and to give such detailed information as will be necessary for the assistance of those who are interested.

Dealing with the subject in a general way, it will perhaps be well to refer to a few points which are essential to a first-class heating plant, and in using the term "first-class" we refer as much to the plant in a cottage as to that in the largest office building, and we mean by it that a system is first-class only when it keeps each room to the desired temperature without creating drafts, and without forcing any part of the system, no matter what the outside temperature may be.

We have made a reference to dralts. These are not necessarily made by leaving a window or door open, but may be created by other means, as, for instance, the faulty placing of a radiator. We know, of course, that the moment the temperature of air is changed that it will move—downward, if the temperature is lowered; and upward if it is raised—and the rapidity of the movement of the air depends entirely upon the number of degrees of temperature through which it passes. This being so, the air coming in contact with a hot radiator must immediately ascend, and that coming in contact with a cold window will at once descend, and in either case more air must pass in to take the place of that just moved, and so the movement goes on constantly as long as there is a difference in temperature between the air and the surfaces with which it comes in contact.

Keeping this in mind, it will be obvious that the location of the radiator in relation to the cold walls of a room must have a most important bearing upon the comfort of the inmates. For instance, referring to Fig. 1, we see a radiator placed against the inside wall of a room, presumably because it was easier to place it there than in a more suitable place, and remembering, also, what was said about the air ascending from the radiator and descending from the windows or other cooling surfaces, we will have no difficulty in tracing the course of circulation as indicated by the arrow.

In such a case it is impossible to have the floor other than cold, no matter how warm the upper part of the room is, or how well built the house is, unless there is an extraordinary amount of heating surface, which will make that portion of the room in its immediate vicinity too warm for comfort.

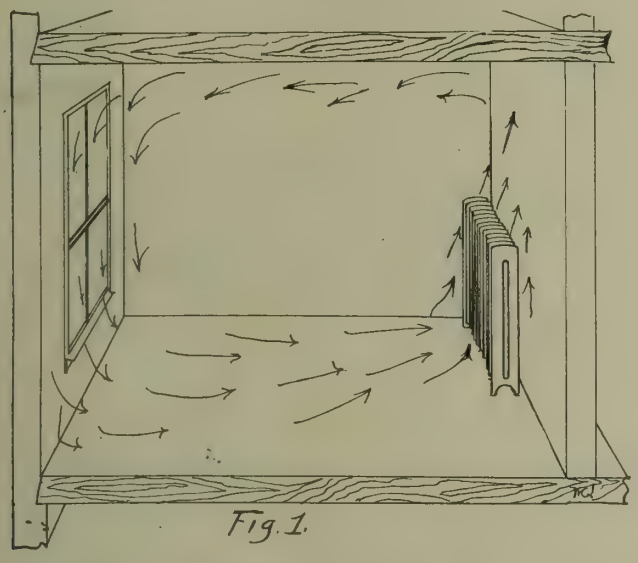


Fig. 1.

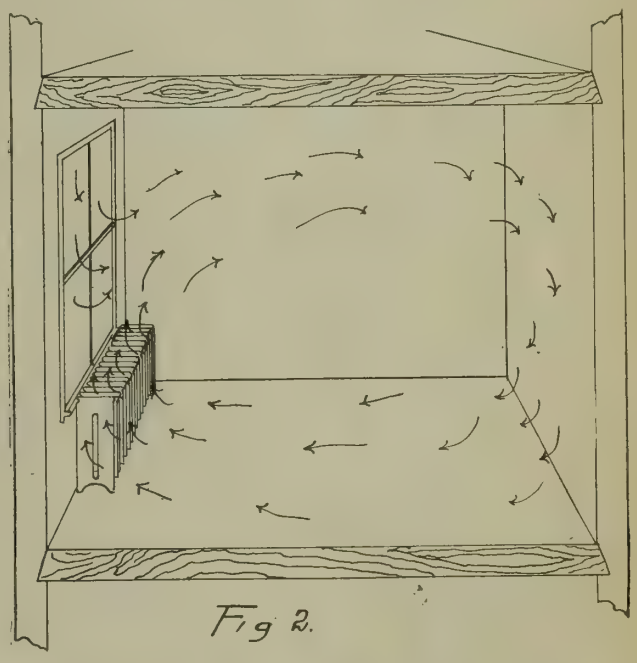


Fig 2.

The proper method of placing heating surface, then, is to have it located where the cold comes in in the greatest quantity, and the ideal spot, of course, is just under the windows, as shown in Fig. 2. This arrangement, however, is sometimes objected to, because of interference with curtains, and that being the case, almost equally good results may be obtained by placing the radiator as close to the side of the window as possible.

Fig. 2 shows the best possible arrangement; the arrows indicate the direction in which the air currents flow when the radiator is placed against an outside wall. It will be noticed that the upward warm currents mingle with the downward cold ones, tempering the latter, and both passing off in an oblique direction toward the ceiling and inner wall, where very little heat is lost, and

passing back again to the heater are again raised through the few degrees lost during the time taken in making the circuit of the room.

SIMPLE WELSBACH LAMP.

QUITE recently there has been introduced in France and Germany a new form of portable lamp, as compact and light as an ordinary kerosene lamp and more easily operated, which has for a fuel supply wood alcohol.

The burner, as compact as the usual kerosene burner, and adapted to fit any regular fount, is of a novel regenerative type, to which the wood alcohol is conducted by a wick. The latter needs no trimming, as the alcohol by the heat is gasified, and then being mixed with air, produces an intense flameless heat above, which renders brilliantly incandescent the usual netted Welsbach mantle, suspended from above and inclosed in a cylindrical slender glass chimney similar to the student lamp type.

This gives in very small compass an intense illumination, equal to forty-five candle-power with the small mantle, and a smokeless light of remarkable steadiness and brilliancy, and which can be perfectly regulated, with the advantage of being odorless even when lowered to bare incandescence.

One of the points of novelty is an automatic device for feeding a minute quantity of alcohol from the fount to the burner in starting, which is done much in the same way as the usual mechanical extinguishing devices are operated on kerosene lamps. The small amount of alcohol thus brought up is simply ignited by a match, as in an ordinary lamp. In about a minute the light burns brilliantly.

On the continent, where alcohol is made cheaply, a source of illumination is produced fully as economical as kerosene, and much more easily handled.

It has been stated that in this country it is possible to produce wood alcohol more economically than in Europe, because of our large forests, which form an abundant source of supply of wood.

As a light for photographic and projection purposes, it becomes very efficient, inexpensive, and convenient.—Scientific American.

SAVED WATER WASTE.

A STRIKING indication of the needless waste of water through imperfect plumbing was recently given at Buffalo. N.Y., where meter tests were taken from mains, says the Metal Worker. At midnight a meter was attached to a main supplying a large territory composed almost entirely of dwellings. Notwithstanding the late hour, the meter registered 300 gallons a minute. A second test was made at the same hour, after repairs had been made in defective plumbing, and resulted in the meter registering but 75 gallons a minute.

The report of test is an admission of the power of the authorities to compel the repair of the defective plumbing, which is clearly responsible for a great deal of this waste. The failure to do so, therefore must be blamed to negligence. It is useless to appeal to public spirit to correct waste voluntarily. That is what has been done for years. In many cases, probably the majority, the waste occurs in rented houses, where perhaps the owner does not know and the tenant does not care. Inspection, followed by peremptory orders to repair under threat of having the water supply cut off, would effect the needed reform. And with such inspection should go stricter regulation for the protection of water pipes against freezing, the lack of which makes it necessary for many householders to leave taps running in Winter.

WORKMEN HONOR EMPLOYER.

About 300 employes of the H. Mueller Mfg. Co., Decatur, Ill., marched to Greenwood Cemetery, in that city, on Decoration Day and decorated the grave of the late H. Mueller, founder of the company. Although many of the workmen have become employes of this growing business since Mr. Mueller's death, the good repute in which his name is held by those who knew him probably accounts for the unique honor confered upon the dead. The Mueller line of water, gas and plumbing goods, are well known amongst Canadian plumbers and users of brass goods.

AMERICAN RADIATOR COMPANY.

The American Radiator Co., who recently acquired the foundry plant of the Cockshutt Plough Co., at Brantford, Ontario, will rapidly remodel these works with a view to making therein suitable lines of Ideal steam and water boilers, for which a good demand already exists throughout the Dominion, largely due to extensive advertising. The company will not, for the present, manufacture radiators there.

The continually expanding unity in commercial affairs now developing between the States and the provinces, and the similarity of demand and trade conditions, all combine to justify the expectation that the American Radiator Co. can prove the broadest application of its title and policies on Canadian soil, as well as it is doing in the United States.

HEATING BY FRICTION.

A St. Joseph, Mo., negro has made an invention which has been put in use, and it has been demonstrated that it will produce enough heat to warm the largest building in the city in the coldest weather without the use of coal or wood. The heat is produced by friction. The invention consists of a steel tube surrounded by a jacket, and inside of the tube a wooden roller cut into four triangular sections and arranged about a steel shaft. A water chamber outside of the tube is ten inches in diameter.

A two-horse-power motor is used to operate the machine, and tests have shown that at a speed of 700 revolutions it will heat 990 gallons of water to a temperature of 160 degrees in fifty-four minutes. At 700 revolutions steam is produced in five minutes from the time the machine is started. From that time on there is a gain of ten pounds of steam every three minutes. It has been shown that the machine will produce the wonderful gain of 200 pounds of steam an hour.

The show window should pay the rent. If your windows are non-productive, change your methods.

Bolton, Fane & Co.
98 Leadenhall Street, London, E.C., Eng.

TINPLATES

In all qualities and sizes

Bessemer Coke	"Lofoden" Brand
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CONNOR'S O. K. ROTARY WASHER.



No experiment, but a trade winner. Dealers who handle this washer say they sell easier than any other. Write for our catalogue and price list.
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Kerr's "Copper Alloy" Disc

GLOBE VALVES

are superior to any other disc valves on the market for high steam.

This is a very superior valve, at a moderate price.

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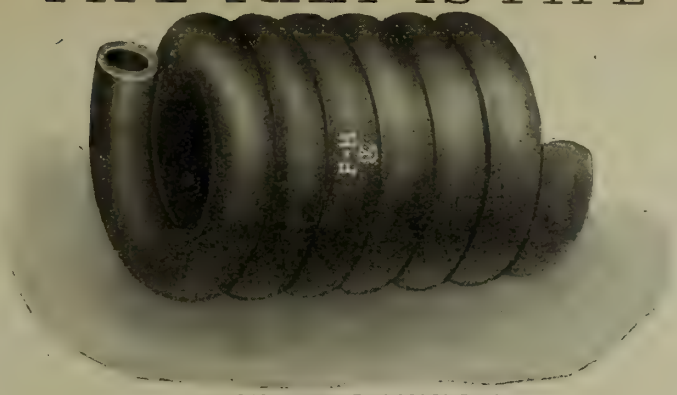
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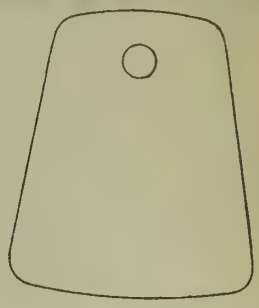
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Largest Variety, Toilet, Hand, Electric Power

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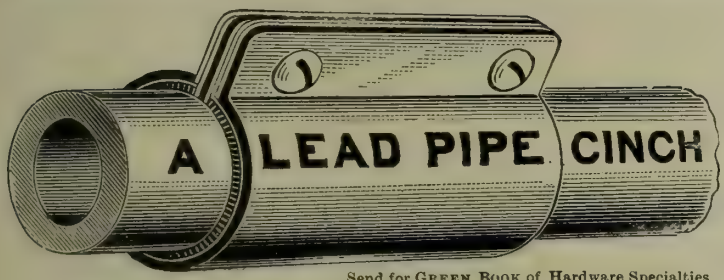
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Send for GREEN BOOK of Hardware Specialties.

Smith's Pipe Patch

SAVES TIME & MONEY

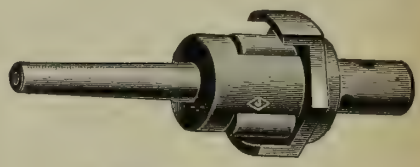
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Plumbers, ½ day	$1.00
Helper	.50
Solder	.25
Charcoal	.15
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Smith's Pipe Patch	.25
Amount saved	$1.65

SMITH & HEMENWAY CO., Mfrs. Cutlery and Hardware Specialties

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Canadian Sample Room: 215 Coristine Bldg., MONTREAL. ALLEN C. JENKING, Canadian Manager.



JARDINE'S

Self-Feeding Boiler

Tube Expander

has case-hardened body. It will outwear any Expander on the market, and it's cheap.

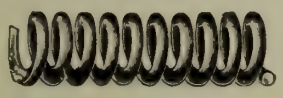
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At the Same Price

Isn't it Best to use the Kind that are

GUARANTEED FOR 5 YEARS 5 YEARS 5 BY

GLAUBER, CLEVELAND, OHIO, U.S.A.



SOME OTHER BOILERS

you may hear of, but not for being as economical or as trustworthy as

THE ECONOMICAL HOT WATER BOILER

for there is no other boiler as good as it. Agents wanted.

P. GIES, Founder, BERLIN, ONT.



Plumbing Markets

QUEBEC.

Office of HARDWARE AND METAL,
232 McGill Street,
Montreal, June 9, 1905

THE extensive operations in the building trade are probably the best reason for the unusually heavy demand this year. During recent years the demand has been gradually increasing, and this year has kept up the record by eclipsing the demand of former seasons. One not acquainted with the prevailing conditions would wonder regarding the destination of the goods which are constantly being forwarded from the warehouse to the shipping depot. But nearly every order which arrives means the installation of a complete outfit. Some of the local supply houses who were not fortunate enough in securing a large stock during the early period of this season are finding it somewhat difficult to obtain pipe and baths on immediate shipment.

Range Boilers—We quote as follows: Iron clad, 30 gallon, $6, and 40 gallon, $7.50 net; copper, 30 gallon, $22; 35 gallon, $24; 40 gallon, $28. The discount on copper boilers is 15 per cent.

Lead Pipe—A good demand still continues to be prevalent on this market. This demand is more noticeable in cities and large towns where the better class of work is being accomplished. Prices are firm, but no advance is anticipated. We quote: Discount 30 and 5 per cent. f.o.b. Montreal, Toronto, St. John, N.B., and Halifax; f.o.b. London, 15c. per hundred lbs. extra.; f.o.b. Hamilton, 10c. per hundred lbs. extra.

Iron Pipe Fittings—This market continues unchanged. Discount on all sizes of nipples up to six inch 67 1-2 to 70 per cent.

Iron Pipe—Latest reports received tend to show that the manufacturers are taxed to their fullest capacity, and it appears as if some delay in supplying the wholesale supply houses may occur in the near future. Although prices are firm, there is no likelihood of an advance taking place. We quote the following prices: Standard pipe, in lots of 100 feet, regular lengths, 1-4 inch, $5.50; 3-8 inch, $5.50; 1-2 inch, $8.50; 3-4 inch, $11.50; 1 inch, $16.50; 1 1-4 inches, $22.50; 1 1-2 inches, $27.00; 2 inches, $36.00; discounts on black pipe, 1-4 inch, 62 1-2 per cent.; 3-8 inch, 62 1-2 per cent.; 1-2 inch, 72 1-2 per cent.; 3-4 inch, and upwards, 74 1-2 per cent. Discounts on galvanized pipe: 1-4 inch. 47 per cent.; 3-8 inch, 47 per cent.; 1-2 inch, 62 per cent.; 3-4 inch and upwards, 64 per cent. Extra heavy pipe of 100 feet lots are quoted as follows: 1-2 inch, $12.00; 3-4 inch, $15.00; 1 inch, $22.00; 1 1-4 inches, $30,00; 1 1-2 inches, $36.00; 2 inches, $50.00. The discount for black pipe is: 72 1-2 per cent., and for galvanised, 61 per cent.

Soil Pipe and Fittings—No change has occurred in the conditions on this market. A good demand continues to be in progress. Our quotations are as follows: Standard soil pipe, 50 per cent. off list. Standard fittings, 50 and 10 per cent. off list. Medium and extra heavy soil pipe 60 per cent. off. Fittings 60 per cent. off.

ONTARIO.

Office of HARDWARE AND METAL,
10 Front street east,
Toronto, June 9, 1905.

JUNE has brought a steady rush of business, a marked increase over the last week or ten days in May, when a slight falling off was noticed. The business booked in May was very satisfactory, heavy buying having been participated in by both city and country plumbers. The continued activity in building presages a record year's business, the absence of strikes making the outlook for the balance of the year very bright.

No changes have taken place in last week's quotations, but it is expected that the present figures will be altered during the coming week or ten days, the recent weakening in the copper market making a drop in brass and copper goods possible.

Lead Pipe—Buying is active at firm prices. We quote as follows: Lead, 7c.; lead waste pipe, 8c.; discount, 30 and 5 per cent.

Soil Pipe and Fittings—Large sales are reported. Prices continue steady. We quote as follows: Medium and extra heavy pipe and fittings, 60 per cent.; 7 and 8 inch pipe, 40 and 5 per cent.

Iron Pipe Fittings—This line is very active, the amount of contract work going on being large. We quote: Malleable fittings 20 to 25 per cent. for American and 35 per cent. for Canadian; cast iron (standard), bushings, 65 per cent.; headers, 60 per cent.: flanged, unions, 60 per cent.; lipped unions, 60 and 5 per cent.; malleable bushings, 60 per cent.; nipples up to 6 inch inclusive, 75 per cent.

Copper Range Boilers—Conditions are unchanged, business being normal. Prices are steady. The discount of 15 per cent. continues.

Galvanized Iron Range Boilers—Demand continues active, large sales being made and quotations continuing unchanged as follows: 12 gallon capacity, standard, $4.50; extra heavy, $6.50; 18 gallon, standard, $4.75; extra heavy, $6.75; 24 gallons, standard, $4.75; extra heavy, $6.75; 30 gallon, standard, $5; extra heavy, $7.50; 35 gallons, standard, $6; extra heavy $8.50; 40 gallons, standard, $7; extra heavy, $9.50; 52 gallons, standard, $11; extra heavy, $14; 66 gallons, standard, $18; extra heavy, $20; 82 gallons, standard, $21; extra heavy, $24; 100 gallons, standard, $29; extra heavy, $34; 120 gallons, standard, $34; extra heavy, $40; 144 gallons, standard, $47; extra heavy, $55.

Iron Pipe—Buying continues active and there is a prospect of a shortage owing to the large demand from manufacturers. We still quote as follows: Black, 1-4 inch, $2.03; 3-8 inch, $2.06; 1-2 inch, $2.29; 3-4 inch, $2.87; 1 inch, $4.12; 1 1-4 inch, $5.62; 1 1-2 inch, $6.75; 2 inch, $9. Galvanized, 1-4 inch, $2.86; 3-8 inch, $2.89; 1-2 inch, $3.14; 3-4 inch, $4.02; 1 inch, $5.77; 1 1-4 inch, $7.87; 1 1-2 inch, $9.45; 2 inch, $12.60.

Solder—Prices continue unchanged the demand for goods being steady. Bar solder, half and half, guaranteed, is quoted at 19c.; wiping solder at 17 3-4c., and refined 18c.

Enameled Ware—Owing to the exceedingly active demand for goods shipments are slightly behind time. We quote as follows: Baths, rolled rim, 5 feet, 2 1-2 inch rim, 1st quality, $17.50, special, $15.50; 3 inch rim, 1st quality, $19.00, special, $17.00; 5 1-2 feet, 2 1-2 inch rim, 1st quality, $19.00, special, $17.00; 3 inch rim, 1st quality, $20.50, special, $18.50. Lavatories, discounts 30 to 40 and 5 per cent. Sinks, 18 x 30 inch, flat rim, 1st quality, $2.45; special, $2.

If a glass-gauge tube is too long, take a three-cornered file and wet it; hold the tube in the left hand with the thumb and forefinger at the place where you wish to cut; saw it quickly and lightly two or three times with the edge of the file and it will mark the glass. Now take the tube in both hands, both thumbs being on the opposite side to the mark, and about an inch apart, then try to bend the glass, using your thumbs as fulcrums, and it will break at the mark which has weakened the tube.

To improvise a pipe wrench, take a thin rope and double back about 3 feet of it. It is not necessary to cut it. Then wrap the double part around the pipe two or three times in the direction the pipe is to be turned, and place a stout stick of convenient length in the loop end of the rope. Keep one hand on the rope ends, the other on the stick, and proceed as with an ordinary pipe wrench, pulling on the rope when turning the pipe and relieving it to get a new hold. This device can be used to advantage for any thickness of pipe. By using inch rope and a crowbar, or a fence rail, a pipe 6 or 8 inches in diameter may be handled with less labor than when an ordinary pipe wrench is used. If a great deal of force is needed, give the rope another turn or two on the pipe. If the device is clumsy, a wrap less may relieve it. While it is so simple, yet it does not mark or scar the most highly-polished surfaces.

RAMSAY'S CREOSOTE STAINS

Permanent, Brilliant, Beautiful shades for staining shingles, giving that soft effect which comes only from pure creosote stains properly made. See our handsome greens. Sample set of shingles sent if you want them. The prices are right and directions simple. Let us post you fully on this line. It is becoming popular. You should know about it.

A. RAMSAY & SON COMPANY,

Est. 1842 MONTREAL Paint Makers

TRADE PENBERTHY MARK.

OVER 350,000



NOW IN USE

Automatic Injector

If you use grease or oil you want a

PENBERTHY CUP

We make 30 different styles



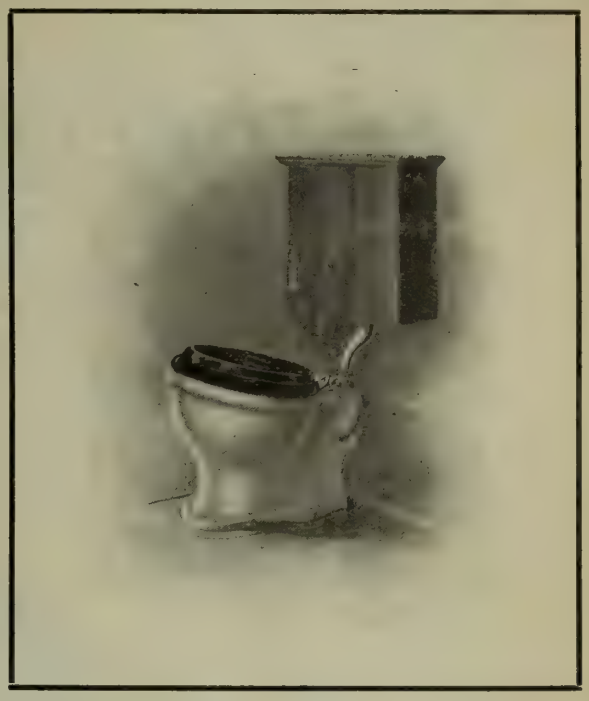
"Saturn" Grease Cup



Safety Crank Pin Oil Cup

RETURNED JUL 12 1905

To Owner Book 3Y Page 67



NATURO WATER CLOSETS

BRING LUCK TO EVERY PLUMBER

who is progressive enough to depart from the beaten path that closet manufacturers have been following a thousand years, and to adopt the NATURO in his business. They are entirely new and just as superior to the old kind as they are new. All you have to do is show them and explain their superiority—done in a few words—and your party is interested. The sale follows and will be succeeded by many more, for the man who buys a NATURO will talk about it and naturally about the plumber who recommended it, and—You can guess the result.

You'll get busy.

Better get some in before someone else in your town gets ahead of you, for you know how much better it is to be first in the field with something that everybody will want.

Drop a Postal for the NATURO Book.

The NATURO Company

C. H. MUCKENHIRN, President.

Salem, N.J.

We make Electric Fixtures, Sockets, and Cut-Outs

Munderloh & Co

Electrical Supplies of all kinds. MONTREAL.

FLASH LIGHTS.

THE increasing demand for the handy little electrical device, known as the "Flash Light," has been the means of bringing about more competition in this line.

For a long time these flash lights were looked upon as simply a novelty, and worthless for any practical purpose. This idea arose from the fact that the public were ignorant of their proper use, and would insist on keeping the light on, thereby rapidly running the batteries down, and rendering them useless, sometimes within a day or so after buying them. Gradually, however, they began to find their real merits in the fact that they had always at hand a perfectly safe light which would save striking matches, or carrying lamps.

These flash lights offer a very attractive new line to the hardware and plumbing trade, who find that they are practically indispensable to the tourists, campers and others who use them in a hundred different ways during the Summer months. They are also extremely convenient for exploring dark corners in the house, such as cellars, closets, etc., where matches or lamps are dangerous.

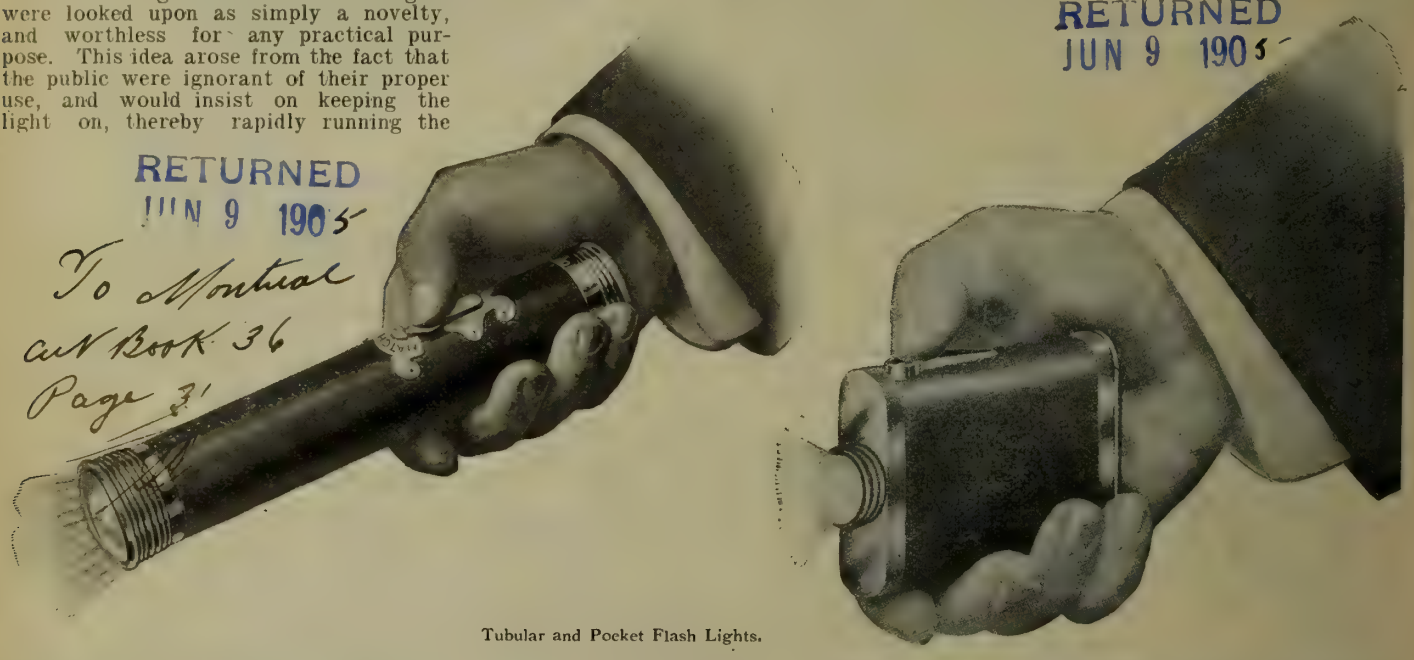
There are, of course, many cheap and poor imitations perfectly useless, but real goods, like the tubular kind shown, cost only from $1.50 to $2 complete, while the vest pocket ones cost from $1.25 to $1.75 each.

These flash lights can be obtained from Messrs. Munderloh & Co., Montreal, who also supply batteries to replace burnt out ones at prices ranging from 30 to 40c. each. The price of these goods is now so very low that they are within the means of everyone, and the cost of recharging is reduced to a minimum.

RETURNED
JUN 9 1905

RETURNED
JUN 9 1905

To Montreal
Cat Book 36
Page 31



Tubular and Pocket Flash Lights.

The ratepayers of Ottawa have voted favorably on a by-law to raise $200,000, to purchase the plant of the Consumers Electric Co., that city.



HOLLOW-WARE PRESSED, STAMPED, and MACHINE-MADE

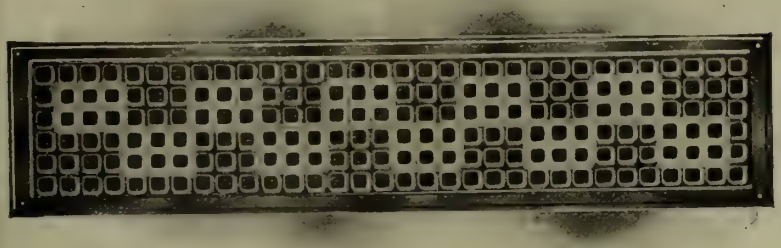
ENAMELLED, TINNED, GALVANIZED and JAPANNED

We manufacture every description of Hollow-ware and we guarantee that every piece is made wholly on our own premises. Our average weekly capacity, is over 700,000 pieces, of Tinned, Galvanized and Enamelled ware. Our Enamelled ware is of superior durability and finish, and is guaranteed free from any poisonous substances.

Let us have your name for our Illustrated lists

The Welsh Tinplate & Metal Stamping Co., Ltd.

LLANELLY, WALES



Wrought Steel One-Piece Screens

For use in Front of Steam Pipes.
Furnished in any length up to fifteen feet.
Width of face from six to fourteen inches.

Hart & Cooley Co.

New Britain, Conn., U.S.A.

FERROSTEEL REGISTERS

WE MAKE ALL LINES

All Cast
Modified Steel
All Steel

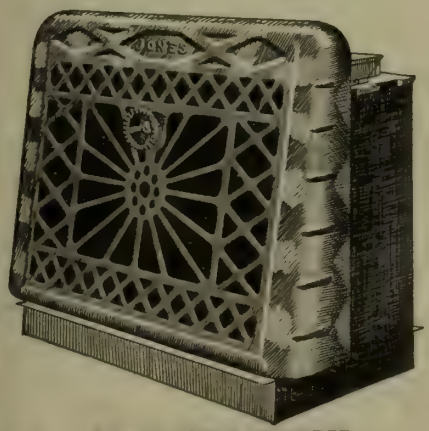
Quality everlastingly the best
Prices everlastingly the bottom

OUR
ALL CAST Are time tried and worth proven.
MODIFIED STEEL The novelty success of 1904.
ALL STEEL Almost ready and a sure winner.

THE FERROSTEEL CO., 34 Michigan St., CLEVELAND, OHIO



A No. 12 JONES REGISTER
For second floor room. Bottom Collar fits 3¼x12 or No. 8 Wall Pipe.



A No. 15 JONES REGISTER
For first floor rooms. Bottom Collar, 7x14. These Registers are fitted with a Top Collar which fits 3¼x12 Wall Pipe or a plate when used for heating one room on the first floor.

ADVANCED METHODS OF WARM AIR HEATING

Is the title of our latest catalogue which illustrates and describes the

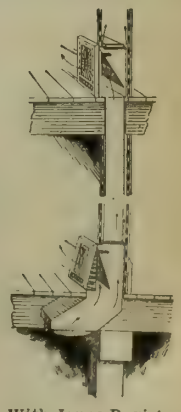
JONES SIDE-WALL REGISTERS, AND THE JONES SYSTEM OF WARM AIR HEATING

These Registers have been on the market since 1901 and are used by between five and six thousand of the best urnace dealers in Canada and the United States.

By the use of Jones Registers the efficiency of the furnace is **increased**; at the same time, the cost of installing furnace is **reduced**.

BE UP-TO-DATE AND USE THE BEST

There is included with each Jones Register, the register which is also a border, a double register box, a ventilator and a deflector. Wall pipes are two feet shorter and but one-half the number of basement pipes ordinarily used are necessary.



With Jones Registers but one-half the number basement pipes are necessary.

Manufactured by
THE JONES REGISTER CO.
295 College St., Toronto, Ont.

Manufactured for
MERRICK-ANDERSON CO.
Winnipeg, Man.

HOME OFFICE

THE UNITED STATES REGISTER CO.,

LIMITED

Burchard St. & D.T. & M.R.R., ***BATTLE CREEK, MICH.***

OUR CATALOUE FREE ON APPLICATION

MANUFACTURER'S AGENTS.

IMPORTERS, ATTENTION

Save money by consigning your importations direct to destination and pay through freight charges only. Have your goods cleared and distributed by

Turnbull & Henderson

Customs Brokers, Forwarding and Distributing Agents
Vancouver, B. C. Satisfactory service given.

ALEXANDER GIBB

Manufacturers' Agent and Metal Broker,
13 St. John Street, Montreal

Representing British and American Manufacturers. Correspondence invited from firms wishing to be represented in Canada.

BRONZE POWDER AND LIQUID

is used by every steam-fitter. Ask your supply house for our goods for best results. Or, if they have no got them, write direct to

R. E. THORNE

768 Craig Street MONTREAL
29 Melinda Street TORONTO

North West Machinery & Iron Co.
LIMITED

WINNIPEG, Canada

The only exclusively Blacksmith Supply and General Machinery House in the Great Canadian Northwest.

Frank Pearce & Co.

Commission Merchants, Freight Contractors,
Shipping and Forwarding Agents
and Insurance Brokers,
18 CHAPEL ST., LIVERPOOL, ENGLAND

Cable address, "Pearce," Liverpool. A. B. C. Code

IDEAL
Woven Wire Fencing



MAKES MONEY FOR YOU

Your customer, the farmer, wants a fence that can be put up quickly and easily just when he wants it. Hand made fences cost too much when you figure the time it takes to build them, to say nothing of the hard work.

Why not sell "The Ideal," the best woven wire fence made? You can build up a permanent trade that will pay you as much as any line you are handling. Other hardware merchants are doing it. Why not you? The Ideal will give satisfaction to your customer and make him your friend.

Have you seen the Ideal? Let us send you a sample and catalogue showing why Ideal fence made from No. 9 hard steel wire throughout is the strongest and the best value.

Ask us about the Ideal all metal farm gate.

The McGregor-Banwell Fence Co., Limited,
WALKERVILLE, ONT.
Morrick, Anderson & Co., Winnipeg, Man.
Sole Agents for Man. and N.W.T.

BUSINESS CHANGES

Ontario.

HOSKIN & MALLOCH, carriage-makers and blacksmiths, London, have dissolved partnership. Jas. Malloch continues in business.

A. Gingerich, hardware merchant, Tavistock, has sold to C. Klein.

Bishop & Hazelton, hardware merchants, Leamington, have sold to F. Mettam.

A meeting of the creditors of D. McBrien, dealer in implements, Goderich, was held June 8th.

Quebec.

W. J. McGuire & Co. have been registered as plumbers, Montreal.

Lamoureaux & Co. have been registered as painters, Montreal.

J. A. Proulx, blacksmith, Buckingham, has suffered loss by fire. No insurance.

The stock of C. Roussin, hardware dealer, plumber, etc., Montreal, was damaged by fire. Insured.

Nova Scotia.

G. Ellison, blacksmith, Apohaqui, is retiring from business.

W. B. Arthur & Co., wholesale and retail hardware merchants, Halifax, have compromised at 45c. on the dollar.

Manitoba and N.W.T.

Beach & Deyell, hardware merchants, Alameda, have sold out to Cook & Morrison.

A receiver is in charge of the premises of A. L. Legarce, hardware merchant, Duck Lake.

British Columbia.

Sawyer & Holtby, painters, Armstrong, have been succeeded by C. Gordon, Vernon.

ASBESTOS SAD IRONS.

THE DOVER MFG. CO., Canal Dover Ohio, U.S.A., are devoting large space to the advertising of a household article, two full pages in this issue of "Hardware and Metal being devoted to an advertisement of asbestos sad irons, the excellent features of which are based on the application of what is called the "Asbestos Principle." This principle is found in the asbestos-lined hood or cover which prevents the radiation of heat from the iron proper. In this way, when an iron is once thoroughly heated, it will remain hot enough for practical ironing much longer than if exposed to the air. This makes a hot iron, and it naturally follows that when the heat is kept in the iron it will not rise against the user's hand and wrist. This insures absolute coolness and comfort in the handle at all times.

While the dealer is always desirous of handling goods which possess merit, and will therefore please his customers, he is perhaps more interested in the policy of placing goods on the market. The Dover Mfg. Co. prides itself upon having adopted a marketing policy which is reasonable in every respect and thoroughly up-to-date. The main feature of this policy is co-operation between the manufacturer and the trade. The co-operation on the part of the Dover Mfg. Co. is based on three principles, which are as follows :

First.—The manufacturer should co-operate with the trade by making goods as nearly perfect as possible.

Second.—The manufacturer should introduce his goods to the consumer in such a way that they will not remain dead stock with the trade. This principle is carried out by extensive advertising in magazines which women read. Besides this advertising, the Dover Co. supplies the trade with printed matter and electrotypes for local advertising. In connection with the electrotypes, a "Book of Model Advertisements" has been prepared for free distribution. These model ads. can be cut out of the book and referred to the local newspaper as copy. In this way only a few changes need be made by the local dealer, which require very little effort. The advantage of using such a book, is that the dealer can produce strong copy without spending much time or thought in preparing it, at the same time deriving the benefit of the demand which will be created for asbestos sad irons, and getting his name before probable consumers of other lines which he carries.

Third.—The company also co-operates with the trade by establishing and maintaining fixed minimum prices. This is done primarily for the sake of pre-



venting the asbestos sad iron business from becoming demoralized. Every dealer knows that when goods once become a foot-ball to be used by price cutters in every conceivable form of cut-throat competition—these goods will receive a malodorous reputation among the trade. This is a detriment to the interests of the manufacturer, and it therefore follows that a price maintaining policy is not mere philanthropy on the part of the firm that establishes such a policy.

On the other hand, the dealer reaps the benefit by being enabled to demand a price which insures profit, without putting himself liable to the charge of being steep in price. When manufacturers generally adopt the policy of establishing fixed minimum prices of their goods, business conditions will be greatly improved.

Co-operation always implies concerted action on the part of all parties concerned. It therefore follows that the retail dealer must do his share in seeing that a co-operative policy is carried out. The manufacturer who takes a stand largely for the benefit of the trade, should be encouraged by knowing that the trade appreciates what is being done. If the trade does not show such an appreciation, the manufacturer may become discouraged—to the detriment of business conditions in general. The Dover Mfg. Co. sincerely hopes that the policy which has been adopted will help to bring about a more fraternal relation

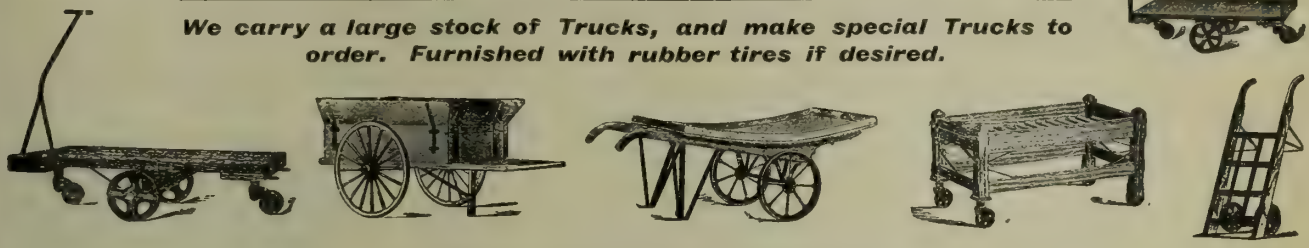
TRUCKS for

WAREHOUSE,
RAILROAD
and HOTEL USE.



Built to Stand Hard Usage

We carry a large stock of Trucks, and make special Trucks to order. Furnished with rubber tires if desired.



Send for Truck Catalogue.

THE CANADIAN FAIRBANKS CO. LIMITED

MONTREAL TORONTO VANCOUVER WINNIPEG

METALS

MANUFACTURERS OF

Solder,
Babbitt,
Lead Pipe,
Tin Pipe,
Fuse Wire,
Electrical Zincs.

DEALERS IN

Pig Lead,
Antimony,
Copper,
Pig Tin,
Aluminum,
Bismuth.

WRITE US YOUR REQUIREMENTS

THE CANADA METAL COMPANY

WILLIAM STREET, - TORONTO

At the Front

The Hamilton Rifle is at the front permanently, and it got there by the only royal road—proving its worth. It outdistanced its competitors on price, and it still keeps up that **distinction.** When you think of

THE HAMILTON RIFLE

retailing at $2.00, which shoots a 22-calibre, long or short, has a walnut stock, is made on the "take down" pattern, and up to 75 yards is unsurpassed for accuracy—when you think of this, what do you think of a rifle, not one iota better, retailing at $6.00, and what do you think of the boys who have not yet purchased a "Hamilton"—at such a price? "The knowing how to make," on our part, accounts for the boy saving that $4.00. Send a post card to us this very day for descriptive circular, or see your Canadian jobber about the rifles themselves.

The Hamilton Rifle Co.

Dept. 71. PLYMOUTH, Mich.



OAK CABINET

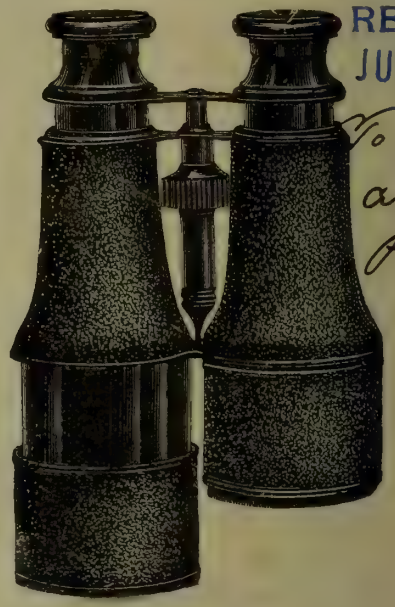
Free of charge, given away with an order for Five half-dozens Scissors as illustrated above. Can be had through All leading Wholesale Hardware Firms.

between the manufacturer and the distributor of manufactured articles.

HUNTERS' SUPPLIES.

Although there is a sort of tradition that a hardware store always has whatever you cannot find in other stores, there are several things the hardwareman might keep, which he does not now very generally handle. One of these is field glasses, a line of which might be handled to satisfy the tourist trade of many of our inland Canadian towns. The line reproduced herewith are carried by the wholesale hardware firm of Frothingham-Workman, Limited, of Montreal, and are manufactured by the celebrated French optical firm of Lamaire, of Paris.

Field glasses are used frequently by hunters, and a pair adds greatly to the enjoyment of the Summer trip to the lakes or the seaside. Between the various uses a hardwareman should make frequent sales and the line would be a profitable one, as glasses are handled by very few dealers. A line of field glasses,



Hunters' Field Glasses.

as well as opera glasses, is shown in the above mentioned firm's "Sporting and Fall Goods" catalogue.

HARDWARE TRADE PARAGRAPHS.

Every lawn mower that goes out of the store now should be accompanied by a grass catcher, and possibly a pair of shears, a weeder and a lawn rake. These are all needed to keep the lawn looking well.

Lawn rakes are taking the place of the garden rakes that were in demand a month ago.

Hose reels, couplings and sprinklers go with the lawn hose. Don't forget that when a customer buys the tubing.

Preserving time is not many moons away. That means business in preserving kettles, besides jelly glasses and fruit jars.

Selling washing and sewing machines on instalments to good customers is much better than letting the peddler or catalogue house have the business.

Summer is the best pocket-knife season as a rule. Cutlery of all kinds is a good Summer line. Keep the goods on display shining and free from dust.

SHEET BRASS AND COLD ROLLED COPPER

We are now fully equipped and can fill all orders for these metals.
Send us specifications of your requirements. Write for our Discount Sheet.

CANADA BRASS ROLLING MILLS, LIMITED

Mills: NEW TORONTO, CAN. *Head Office: 98 King St. W., TORONTO*

REFRIGERATORS



Opalite
Royal Oak
Imperial
Puritan
Champion
Champlain

Sanderson-Harold Refrigerators

are unequalled for General Appearance, Style and Construction

If you want the best you must carry our line.

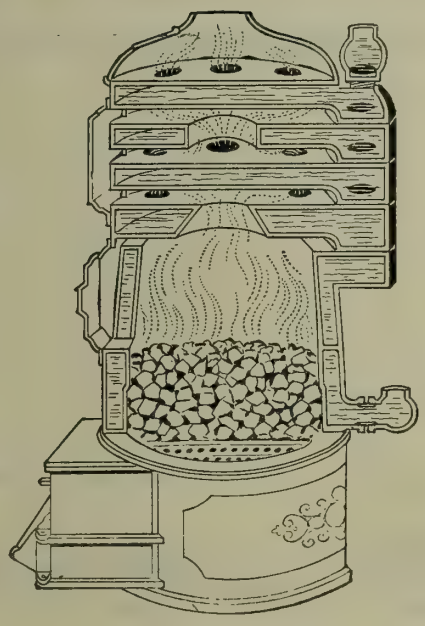
Write for Catalogue. It will pay you.

SANDERSON-HAROLD CO., Limited

Manufacturers of

Refrigerators, Screen Doors and Windows

PARIS - - ONTARIO



A Boiler of the Highest Efficiency

WE HAVE produced in the Oxford Hot Water Heater a boiler which contains many exclusive features and for which we claim a greater amount of power and efficiency than any other make on the market. Our boiler has proved these claims correct after two years' use in the United States.

By greatly increasing the heating surfaces, we have produced a boiler that will more quickly and with a less consumption of fuel give a much higher temperature.

The fire-pot has a greater diameter at the bottom than the top. This prevents an accumulation of dead fuel and ashes around the most active surface of the boiler. Above the level of the top of the fuel the walls overhang the fire, giving a great heating surface, compelling the heat to sharply impinge instead of merely passing by them, as would happen if these surfaces were vertical.

The first section above the fire is double the thickness of other sections, and the flue openings are bell-shaped, thus giving a great amount of heating surface.

The entire boiler is steel and iron, no rubber washers being used. All joints are made with smooth tapered steel nipples pressed into smooth tapered openings, making an absolutely indestructible joint. The smaller sized boilers are shipped with all the sections built together, thus saving three quarters of the time ordinarily taken in erecting a heater.

WRITE for the "GURNEY OXFORD BOOK OF HOT WATER and STEAM HEATING APPARATUS." IT IS FREE.

The Gurney Foundry Co., Limited

TORONTO WINNIPEG VANCOUVER

The Gurney-Massey Co., Limited, Montreal, P.Q.
The Gurney Standard Metal Co., Limited, Calgary, Alta.

THE PECK ROLLING MILLS LIMITED

MONTREAL

STEEL AND IRON BARS

QUALITY GUARANTEED

PROMPT SHIPMENT

HEAD OFFICE: CORISTINE BLDG. WORKS: LACHINE CANAL

THE KENNEDY HARDWARE CO., LIMITED

No. 49 Colborne Street

TORONTO, - Ontario

EXCLUSIVELY WHOLESALE

Our equipment is new and up-to-date. Our system of filling and shipping orders is a model one, and our customers get the very best and quickest service.

AGENTS FOR

Wade & Butcher Pocket Cutlery
Jos. Allen's Non XLL Pocket Cutlery and Butcher Knives
Arcade Brand Files and Rasps
New Milo B. D. Hangers
Russwin Food Choppers

47-11 RAZORS
(Registered)

Builders' Hardware, Harvest Tools, Spades and Shovels, Screen Windows, Spring Hinges, Green Wire Cloth, Lawn Mowers and all seasonable goods.

Mail or Phone ***Orders shipped same day as received***

HARDWARE AND METAL

President:
JOHN BAYNE MACLEAN,
Montreal.

The MacLean Publishing Co.
Limited

Publishers of Trade Newspapers which circulate in the Provinces of British Columbia, North-West Territories, Manitoba, Ontario, Quebec, Nova Scotia, New Brunswick, P.E. Island and Newfoundland.

OFFICES.

CANADA—
MONTREAL - - - - 232 McGill Street. Telephone Main 1255.
TORONTO - - - 10 Front Street East. Telephone Main 2701.
WINNIPEG, MAN. Room 511 Union Bank Building. Telephone 3726. F. R. Munro.
ST. JOHN, N.B. - - No. 3 Market Wharf. J. Hunter White.
VANCOUVER, B.C. - Geo. S. B. Perry.

GREAT BRITAIN—
LONDON, ENG. - - 88 Fleet Street, E.C. J. Meredith McKim. Telephone, Central 12960.
MANCHESTER, ENG. - 92 Market Street. H. S. Ashburner.

AUSTRALIA—
ADELAIDE, AUSTRALIA, - Steamships Building. W. H. Sharland, Jr.

FRANCE—
PARIS - Agence Havas, 8 Place de la Bourse.

Subscription, Canada and United States, $2.00.
Great Britain and elsewhere - - 12s
Published every Saturday.

Cable Address { Adscript, London. Adscript, Canada.

NEW ADVERTISEMENTS:
Dover Mfg. Co., Canal Dover, Ohio.
Lougheed & Bennett, Calgary, N.W.T.

GO OUT AFTER BUSINESS.

IN selling screen doors, refrigerators and other Summer goods, each merchant should adopt some new plan to increase the sale of these goods. The man who builds up a large business in the keen competition of to-day must be alive to catch trade for every department in his store and initiate original plans to secure it.

One method which could be used to advantage is to watch for every new house erected and send a good salesman to quote prices on screens and refrigerators, articles which are certain to be needed at once. If orders can be landed, a customer is secured and other goods are likely to be sold.

Another practical plan is to send a man around to call upon the residents of houses where screen doors are not in use. If netting has been used it should not be hard for a good salesman to show the additional advantage of made-to-order screen doors and sliding window screens. Such a canvass is certain to result in business for other departments of the store.

The increased use of screens and the improvement in construction of both wood and metal varieties has provided an opportunity for some hardwaremen to build up a fine business in contracting to supply entire buildings with screens, special attention being given to this branch early in the building season.

But the merchant who goes out after business cannot afford to neglect his centre of operations, his store. He must advertise judiciously and see that his windows are attractive. And he must see that his goods are such as will give satisfaction after they are sold. Most important, also, if an effort is made to sell screen doors, it will pay the merchant to set a good example by using the best one he has in stock on his store door, being particular to see that the hinges and catch are kept in good working order.

FLIES AND WINDOW SCREENS.

FEW people realize how many cases of disease owe their origin to infection from germs transported by the pestiferous fly. Plumbers are often looked upon as angels in disguise owing to the good they do in preventing disease, and in the light of recent experiments conducted at the Johns Hopkins University, it appears that hardware merchants who push the sale of screen doors and windows, as well as refrigerators, are entitled to similar distinction. It is not new to learn that flies may be active agents in spreading bacteria, but the results of the investigations spoken of demonstrate that the evil is far greater than generally supposed.

The experiments were conducted with a box that was divided into two compartments, in the first of which was exposed some food material infected with an easily recognizable species of bacteria—harmless bacteria, of course, being used—while in the second compartment was placed an open dish containing a sterile nutrient such as is used as a culture medium for bacteria. Flies were placed in the first compartment and, as soon as a number of them had been seen to walk upon, or eat of, the infected material they were allowed to pass through a small door into the second compartment, where they had a chance to come in contact with the culture medium in the dish. The result was that bacteria deposited upon the surface of the sterile nutrient, multiplied there and formed characteristic colonies.

In these experiments molasses mixed with a growth of yellow bacteria was spread on a plate in the first compartment, and a dozen flies were put into the apparatus. Half an hour later the door between the two compartments was opened, and as soon as several flies had been seen to come into contact with the sterile nutrient the dish that contained it was covered and put away to develop. A few days later there had grown on the nutrient over a hundred colonies of yellow bacteria. The experiment was repeated with red and violet culture and colonies of corresponding color were obtained.

To prove that the germs from which these colonies grew came from the infected material in the first compartment, and not from accidental sources, further experiments were made with other groups of flies, but with no infected material in the first compartment. In this case, however, none of the dishes used in the second compartment developed yellow, red or violet colonies. To prove further that the flies were the only means of transmitting the bacteria, experiments were made with infected material in the first compartment, but with no flies in the apparatus. The dishes containing the nutrient in these experiments also developed no colonies; and from these results it was considered to be absolutely demonstrated that flies are capable of carrying bacteria from one place to another, if they have an opportunity to come in contact with material containing these organisms.

THE BICYCLE OUTLOOK.

IT would almost seem as if the chief features of the bicycle as it is to-day will retain their permanency—and a general acknowledgment of that circumstance has led to the confident employment of expensive standardizing machinery in producing in large quantities all the various parts. People "chaff" the sellers of the "bike" about the enormous profits they must have had a few years ago, when prices were double what they now are. But just as the use of machinery has made it possible to buy a reliable watch for a few dollars, because of the enormous number which can be turned out so cheaply, so strong and reliable bicycles may be had for half the price asked a few years ago. A supplementary reason is the expiration of tire royalties and the accompanying cheapness of manufacturing. Machine tool makers are very busy, we hear, in supplying the demands of the small bicycle builders, and reputations are being made as in other sections of machinery tools. It is this development of the bicycle and the idea that we have, generally speaking, realized the goal of its form and feature that makes the motor experts hopeful that before very long the man of moderate means will have a car of his own. There is still much to be made in this line for hardwaremen, this season's trade having been very satisfactory, and it will pay those who have carried bicycles in the past to continue their interest in this line and branch out with a small stock of motor car supplies and accessories.

THE NEW EDUCATION

THE last half century has seen a remarkable development of nearly all the arts of agriculture, commerce and manufactures, and it would be strange indeed if some corresponding change did not appear in the schemes of education that are to fit our young men and young women for the new order of things.

Formerly, students who wished to acquire the elements of a liberal education were required to spend their time on Latin and Greek, with some algebra and geometry, and, perhaps, a foreign language, such as French or, later, German. Years were spent in the study of works of ancient writers who would have been most of all astonished had they known to what uses their works were to be put. The unhappy schoolboy had his mind crammed with declensions and conjugations and few there were who ever rose beyond this to a grasp of the Latin or Greek tongue sufficient to enable them to read with pleasure or profit the works of classic authors. This was the case for hundreds of years in England. He was a bold man who first drew public attention to the fact that boys and girls had not only memories, that they had human bodies which they might learn how to care for, that their own country had a history and a literature as honorable and as interesting as those of Greece or Rome. Moreover, it appeared that ninety per cent. of students were not going to be gentlemen of leisure or professional men, but were going to earn their livings in commerce or mechanic arts. Could not some scheme of education be arranged that would meet their wants?

The answer has come in many ways. Little by little dead languages have given way to living tongues, chemistry and physics have found their way into the curriculum and more and more attention has been paid to the art of writing and speaking fluently our own language. Greek has been dropped from the course of study in most of our high schools and Latin seems to be following it.

No better evidence of the growth of the new ideas can be offered than the remarkable popularity of technical and commercial schools. The growth of the movement in Toronto is an illustration. A beginning was made about twelve years ago when the Trades and Labor Council persuaded the city fathers to give a grant of $3,000 to assist in the establishment of night schools where apprentices and artisans might study mathematics, architectural drawing, machine drawing, chemistry, etc. At first about 200 students gathered together in old Wycliffe Hall on College street.

As year by year the work expanded new courses were added and the attendance grew very rapidly. In twelve years the number of students had increased tenfold. A larger building and a larger staff became necessary, and the Technical School Board got from the city the use of the large building on College street, formerly the home of the Toronto Athletic Club. In 1901 a day school was started with an attendance of about fifty. To-day the average attendance of the day classes is over five hundred and the night students number about one thousand. About a year ago the Public School Board, Collegiate Institute Board and Technical School Board were amalgamated as the Board of Education for Toronto, and the Technical School was reorganized as a fourth collegiate institute for special purposes under the name of the Technical High School.

The students of the day school are of the same standing as those who attend the collegiate institutes. They must have passed the Entrance examination. They have the same hours as in the collegiate institutes, and the teachers are legally qualified specialists in their departments. A full commercial course is given. There are departments of domestic science and art, architectural and machine drawing, applied mathematics, physics and chemistry, and English literature and composition, history and commercial geography are required with every course, and there are large classes in commercial French. The idea throughout is to make the student as efficient as possible in every way, and to use for this purpose those arts and sciences which will be directly useful to him in after life. A good beginning has been made and its success is vouched for by the large attendance. In the day shcool alone the attendance is half as large again as that of any collegiate institute in the city and the night students are twice as numerous as the day students.

But much remains to be done. Practical technical education is bound to be expensive. Apparatus and supplies must be furnished. Business offices are required and shops for illustrative work in mechanics. It is certain that the citizens will respond to the needs of a department of education which ministers specially to the needs of those who intend to enter commerce or to pursue mechanic arts, for these number at least ninety per cent. of the people in Toronto to-day.

A DRAWBACK.

A FIRM of Canadian manufacturers of a line of goods which experience considerable competition from the United States recently opened up a branch office in London, England, and appointed a United States man as their representative. This man has considerable interests in the competing United States industry, and does not confine his attention to the Canadian agency, so that the latter is not pushed as it ought to be. It is to his advantage and the advantage of his country to keep the Canadian agency more or less in the background, and to give the preference to the United States goods. Doubtless he sends some business to his Canadian people, but the bulk of the orders go to the United States concern.

This is not an exceptional case. It is done in a number of cases in all the markets where Canadian goods compete with the United States. Citizens of the latter country are to be found who take up the Canadian agencies more with the idea of keeping the markets open for the United States products than with the intention of pushing Canadian industries. Wherever they can offer United States goods they do so, but if these are not available they fall back on their Canadian agencies.

When appointing agents abroad, Canadian firms should see to it that they get the full benefits of their representatives' labors, and that their agents do not carry other lines which might compete or prevent the best results being obtained.

THE TWINE MARKET.

THE future of the binder twine industry in Canada is shrouded in mystery, the Canadian Government having allowed most of the mills to be practically unproductive this season on account of the low prices offered by the International Harvester Co. in their effort to kill the small mills and capture the market for their huge combine. Having closed the mills and secured the bulk of the business the Harvester Company advanced prices slightly, and, barring a huge crop failure, have the market largely their own for this season, with good prospects for monopolizing a large share of the trade in succeeding seasons, only one strong company being left in Canada to offer opposition to them.

The low price this season has affected the farmers' producing companies more than the merchants, but the control of the Canadian market by such a concern as the International Harvester Co., with branch depots of its own in nearly every village, is bound to divert business from

hardwaremen, who have hitherto handled considerable quantities of twine. It is plainly evident, therefore, that the interests of merchants can be best conserved by supporting concerns who do their business through retailers, rather than other companies, who sell their product through their own agents.

UNFAIR DISCRIMINATION.

HARDWARE AND METAL has received a letter from a Canadian business man, who is at present making a trip round the world. Associated with one of the largest manufacturing firms in the United States, whose products have become almost a "household word" in the principal countries of Europe, Africa and Asia, he is in a position to speak with authority on foreign trade conditions. In commenting on Canadian trade in South Africa he instances the fact that the direct steamship line sailing from Canada to South Africa, subsidized by the Dominion Government to the extent of $146,000 a year, is offering special inducements to heavy American shippers which are denied to Canadian exporters.

It can scarcely be imagined that the Federal authorities had this in mind when the subsidy was originally granted. Their object was rather to encourage direct trade between Canada and South Africa, it being felt that South Africa offered a splendid market for Canadian foodstuffs and manufactures. A year or more under the improved conditions with gratifying results to Canadian exporters, and the steamship people direct their efforts to making a big "scoop" at the expense of those whom the direct steamship line was intended to benefit in the first instance. Naturally the owners of the line wish to make the service as profitable to themselves as possible; at the same time there is no denying the fact that they are abusing their privileges in discriminating against Canadian shippers. It is an injustice to our exporters, which, if it is allowed to continue, must ultimately strike a death blow to international trade between Canada and South Africa.

MANUFACTURERS' EXCURSION.

ON Friday, the long-anticipated excursion of the Canadian Manufacturers' Association to Great Britain left Montreal on board the turbine liner, the Victorian. The excursion party numbers about 265 persons,—members of the association, with their wives and children,—as representative a body of Canadian men and women as ever left the shores of the Dominion.

On board the Victorian the excursion party will practically own the boat and no expense will be spared to make them perfectly at home. In the Old Country they will receive an enthusiastic welcome and every door will be thrown wide open for them. A complete itinerary for every hour of their time has been prepared.

In brief, the programme may be outlined as follows: Upon arrival in Liverpool on June 17, the party will proceed directly to London, where they will be entertained for ten days by the London Chamber of Commerce. Though London is a huge place, the excursionists anticipate seeing nearly everything that is worth seeing during that time.

On June 27, they will board a special train, which will convey them as far as Glasgow. They will stop at every important centre on the way and will visit the more important industries. The trip to Glasgow will consume another ten days. The party will then break up and the excursionists will be at liberty to go wherever they desire. The official return voyage will be made from Liverpool on the Victorian about July 20.

Among the officers of the association who will take in the excursion are: W. K. George, Toronto, president; C. C. Ballantyne, Montreal, vice-president; G. E. Amyot, Quebec, vice-president for Quebec; John Hendry, Vancouver, vice-president for British Columbia; W. K. McNaught, Toronto, chairman of the tariff committee; P. H. Burton, Toronto, chairman of the insurance committee; Robert Crean, Toronto, chairman of the reception and membership committee. R. J. Younge, the general secretary, who has been in charge of the arrangements, will accompany the party and will supply all information.

The significance of this trip cannot be overlooked. It is the first event of its kind. The presence in the Old Country of 265 of Canada's leading sons and daughters cannot fail to open the eyes of Britishers to the importance of the Dominion. The official receptions, which they will receive, will be recorded in the British press and thus every one will learn of their presence. This will lead to enquiries about them and gradually it will dawn on the British mind that Canada must be indeed a land of happiness and wealth when it produces such people and supplies the means to send them in luxury thousands of miles across the seas.

Nor can the significance of the fact that the excursionists represent the industries of the country be overlooked. Canada is regarded as a land rich in agricultural possibilities. Few in Britain realize the possibilities of its industries. On this point the excursionists will enlighten them, showing them the vast resources of mine and forest, the gigantic water-powers and the admirable facilities for transportation by land and sea.

From a sentimental viewpoint the excursion will be impressive. It will form still another link in the imperialistic chain, for it will reinforce and strengthen the existing connection between the Mother Country and Canada. Upon every possible occasion this will be referred to and it will so impress itself upon the minds of the British host and the Canadian visitor that the tie of kindred will be still further strengthened.

In many another way will this excursion prove itself to be a good thing, but only when it is over can it be estimated to its full worth. Till the travelers set foot once more in Canada, no one can tell just what the result will be.

CONSULAR SERVICE INDICTED.

A RATHER severe indictment of the United States consular service appears in a contemporary American periodical. The charge is made that the service is afflicted with the dry rot of journalistic politicians. That is to say, pull, and not merit, seems to be the qualification for a position in the ranks of American consuls. Of course the writer is careful to explain that there are many exceptions or "a righteous remnant," but the sting of his attack is thereby none the less severe.

Government to-day is becoming more and more government by experts. Colleges and universities are turning their attention to the art of government and are arranging courses for instruction along these lines. But so far as the United States is concerned, there are few experts in the consular service.

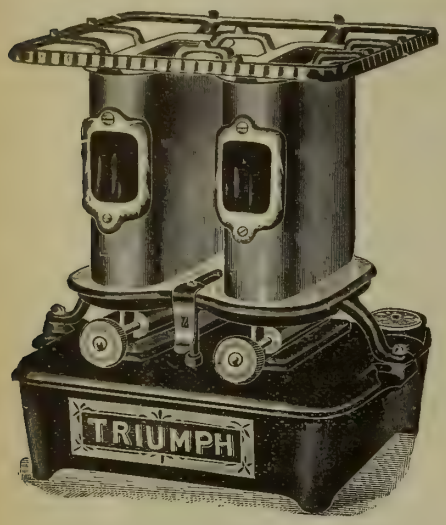
We in Canada have a consular service and one, which for its size, is doing excellent work. The members of the service seem to be competent men with considerable business training. As the service grows, however, there will always be a danger that political influence will be brought to bear to fill the various positions with inferior men. This is a danger that must be warded off if our service is not to suffer from the same trouble as has manifested itself in the United States service. It would be worth while for the authorities at Ottawa to consider the advisability of instituting some sort of an examination which candidates for these positions would have to pass.

BERTRAM DEAL CLOSED.

Reference was recently made to a proposed transfer of the Bertram Engine Works to the Canada Foundry Co., who are in close affiliation with the Canadian Shipbuilding Co. The transfer has now been completed, the latter concern taking over the Bertram works.

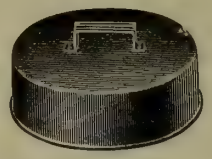
The Canadian Shipbuilding Co. already have yards at Bridgeburg, on the Niagara River. These will be utilized for the building of vessels of larger than canal size for service on the upper lakes. The Bertram yards will be used for building ships of canal size, and for vessels for Lake Ontario, such as the new ship now building for the Niagara Navigation Co., which will have a speed of 22½ miles an hour. Mr. A. Angstrom, who several years ago was with the Bertram Engine Works Co., and more recently has occupied the position of general manager of the Canadian Shipbuilding Co., will be general manager of the united companies.

HOT WEATHER MONEY-MAKERS



TRIUMPH LAMP STOVE

Made in 2 sizes, with 2 and 3 burners.



ASBESTOS-LINED COVERS

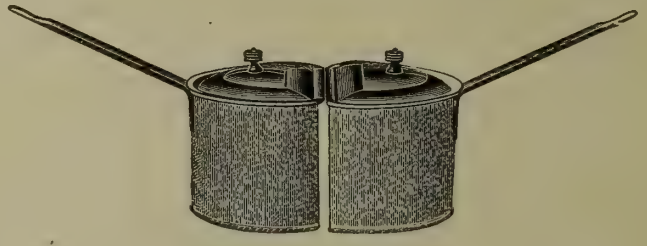
For Mrs. Potts' Irons.

Used on Gas, Gasoline or Oil Stoves.
Will save the price of itself in fuel in two months.



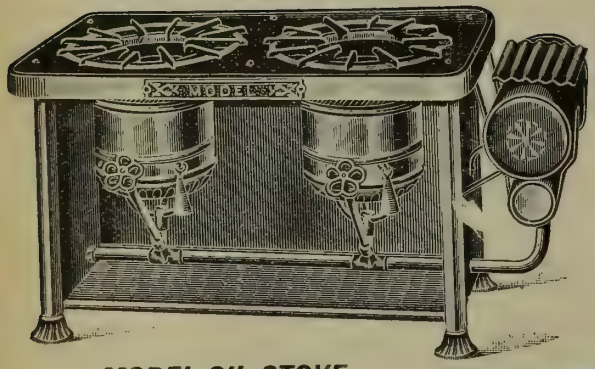
TRI-USE SAUCEPAN

Made in "London Ware."



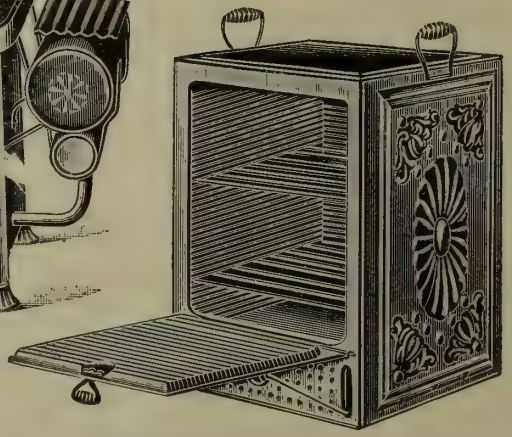
TWIN SAUCEPAN

Made in Enamelled Ware Only.



MODEL OIL STOVE

Made in 6 sizes



MODEL OVEN. Made in 3 sizes.



SUMMER QUEEN OIL STOVE

Made in 1 size.

We can make prompt shipment of all kinds of summer cooking utensils and camping goods.

IF YOU HAVE NOT RECEIVED A CATALOGUE OF OUR SUMMER GOODS, WRITE FOR IT.

The McClary Manufacturing Co.

LONDON, TORONTO, MONTREAL, WINNIPEG, VANCOUVER, ST. JOHN, N.B. HAMILTON

"Everything for the Tinshop."

MARKETS AND MARKET NOTES

(For detailed prices see Current Market Quotations, page 70.)

Quebec Hardware Markets.

Office of HARDWARE AND METAL,
232 McGill Street.
Montreal, June 9, 1905.

ORDERS have begun to arrive more freely, and to-day the trading is somewhat brisker than it has been for some time. The orders which are arriving are well assorted, although Summer goods and sporting goods have the most prominence. Great difficulty is being experienced in securing barb wire, and poultry netting. In fact, it is absolutely impossible to obtain certain sizes of poultry netting, and a few of the local wholesale houses have refused orders during the past week. Certain sizes of screws are also difficult to obtain, as are also wire nails. Retail merchants, who purchased freely early in the season are now at an advantage, as those who have to now re-stock find that they have to wait some time before receiving the goods they have already ordered, owing to the delay on the part of the manufacturers in supplying the wholesale houses. Prices continue firm and the market has an excellent appearance.

Axes—Orders which were booked last Winter are now being forwarded. Trade comparatively speaking, is still quiet, and it is expected that business of a more brisk nature will be transacted later on in the Fall. Prices continue unchanged. Our quotations are as follows: Chopping axes, unhandled, $6 to $9.50 a dozen; double bitt axes, $9.50 to $12 a dozen; handled axes, $7.50 to $9.50; Canadian pattern axes, $7.50 a dozen.

Handles—A good demand still continues to be prevalent on this market. Prices are firm but no change is anticipated. Our quotations are: Axe handles, No. 3, $1.25; No. 2, $1.50; No. 1, $1.90 a dozen; adze handles, 34 inch, $2.20 a dozen; pick handles, No. 2, $1.70; No. 3, $1.50 a dozen.

Sewing Machines—The good demand which has been prevalent on this market for some time is beginning to show signs of weakening, owing, no doubt, to the advanced state of the season. We quote the following: Hand sewing machines, $11 each net; complete machines with stand, $18 and up, according to quality.

Lanterns—Some small orders are beginning to arrive, and it is expected that a good trade will be in progress within a short time. Prices continue unchanged. Our quotations are as follows: Cold Blast, $4.50; No. 0 Safety, $3.50.

Barb Wire—The most noteworthy feature on this market is a continuation of the delay on the part of the manufacturers in supplying the wholesale houses. Through this delay a certain amount of discontent is prevalent throughout the trade. Prices are firm, but no advance is anticipated. We quote the following: $2.75 for 100 lbs. f. o. b. Montreal; $2.37 1-2 f.o.b. Cleveland. Carlots of 15 tons, $2.25 f.o.b. Cleveland.

Fence Staples—Orders are continuing to go forward freely. But owing to the delay in receiving the barb wire, retail merchants have curtailed the size of the orders for fence staples to considerable extent. No change has occurred in the price lists during the past week. Our quotations are: $2.65 per 100 lbs. keg, for bright, and $3 for galvanized; 25 to 50-lb. packages 25c. extra.

Rivets and Burrs—Orders for these goods are being received quite frequently, and the prospects are that sales of this year will be considerably in excess of those of last year. We quote the following: Best iron rivets, section, carriage and wagon box, black rivets, tinned do., copper rivets and tin swede rivets, 60, 10 and 10 per cent.; swede iron burrs are quoted at 60 and 10 and 10 per cent. off new lists; copper rivets with the usual proportion of burrs, 45 per cent. off; and coppered iron rivets and burrs in 5-lb. cartoon boxes at 60 and 10 and 10 per cent.; copper burrs alone, 30 and 10 per cent., subject to usual charge for half-pound boxes.

Screws—The strong demand of this Spring has resulted in it becoming very difficult to secure the sizes which are more often used. Prices are firm but there is nothing to indicate that an advance will take place. We quote: Round head, bright, 82 1-2 per cent.; flat head, bright, 87 1-2 per cent.; brass, round head, 75 per cent.; brass, flat head, 80 per cent.

Bolts and Nuts—Wholesale houses are experiencing some difficulty in securing certain shapes and certain sizes of nuts. Bolts are also scarce, but these are more readily obtained than the previously-mentioned article. The demand from manufacturers and Canadian machine shops is good, and present indications point to sales of this year being in advance of the sales of last year.

Wire Nails—No change worthy of mention has occurred on this market. The shipments of course are still slow and are expected to remain so during the rest of the season. Our quotations are: $2.25 a keg, f.o.b. Montreal.

Cut Nails—Trade on this market still has an inclination to be quiet. The market has become easier, but no change has occurred in the price list. We quote the following: $2.20 a keg, f.o.b. Montreal.

Horseshoes—Trade on this market has assumed a quiet nature, and is expected to continue so until the close of the Fall season, when orders begin to arrive for Winter's use. Prices continue unchanged. Our quotations are: P.B. New Pattern, base price, $3.50 per 100 lbs.; M.R.M. Company latest improved pattern iron shoes, light and medium pattern No. 2 and larger $3.65, No. 1 and smaller $3.90, snow pattern, No. 2 and larger $3.90, No. 1 and smaller $4.15. Light steel shoes, No. 2 and larger, $3.90, No. 1 and smaller $4.15; featherweight, all sizes 0 to 4, $5.50; toe weight, all sizes 1 to 4, $6.75. Packing—Up to three sizes in a keg ten cents per hundred pounds. More than three sizes twenty-five cents.

Horse Nails—Beyond a steady trade no change has occurred on this market during the past week.

Sporting Goods—Fishing tackle still continues to have an excellent demand. A noteworthy feature on the market last week was the marked increase in the demand for rifles and ammunition. This change is more particularly noticed in the Northwest, where large amounts are beginning to go forward. Prices are all firm. Our quotations are: Canadian-made shells, black, 25 and 5 per cent.; smokeless, 25, 10 and 5 per cent.; American centre-fire cartridges, list net; sporting and military, 10 per cent. advance on list; primers, $2.05 per thousand; American loaded shells, 20 per cent. discount; B.B. caps, $2 per thousand; standard shot, $6.50 per hundred lbs.; chilled, $7 per hundred lbs.; buck and steel, $7.50 per hundred lbs.; ball, $8 per hundred lbs. We quote discounts 15 per cent. on shot f.o.b. Montreal, Toronto, Hamilton, London, St. John and Halifax.

Building Paper—A good demand still continues. Large amounts are being shipped daily to the Northwest Territories and western provinces. Sales up to date are in advance of last year and it is expected that when this present season closes an advance of twenty-five per cent. will be noted.

Cordage—Binder twine is beginning to have a better demand, and it is expected that some large orders will be booked during the next few weeks. Prices are all firm at the present quotations, although there is nothing which would indicate an early advance.

Cement and Firebrick—Owing to the high price of English and Belgium cements, larger amounts of American cements have been gradually arriving, until this week the American article has almost replaced the other foreign brands. Large amounts of Scotch aad English firebrick continue to arrive, and some good business is being transacted. We quote the following: English cement, $1.80 to $1.90; Belgium, $1.60 to $1.90 per barrel; ex-store, American, $2.00 to $2.10 ex-cars; Canadian Portland, $1.90 to $2.00. Firebrick, English and Scotch $17 to $21, American $30 to $35.

Coil Chain—A fair demand still continues to be in progress. Prices are firm and continue unchanged. Our quotations are: 5-16 inch, $4.25; 3-8 inch, $3.75; 7-16 inch, $3.55; 1-2 inch, $3.35; 9-16 inch, $3.30; 5-8 inch, 3.20; 3-4 inch, $3.05; 7-8 inch, $3; 1 inch, $2.95.

Green Wire Cloth—As the trade has almost been supplied for this season's demand the orders have begun to be less frequent. Trade is expected to be only fair until next Spring. Our quotations are: Per 100 square feet, $1.50.

Poultry Netting—A great scarcity still

The Iron that combines the highest

Efficiency with the Greatest Comfort and Convenience

TO THE USER.

ASBESTOS SAD

AN IRON FOR

A HOT IRON A COLD HANDLE



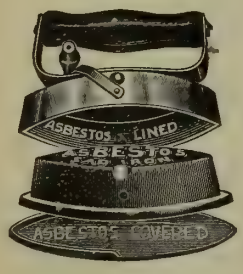
LAUNDRY SET, No. 70.

Two seven-pound irons, one six-pound iron. Packed in single set boxes.



FLOUNCE IRON, No. 50.

Weighs complete 4 pounds. A very ready seller



SLEEVE IRON, No. 40.

Weighs complete 3 pounds.



TOURIST IRON, No. 10.

Weighs complete 1½ pounds.

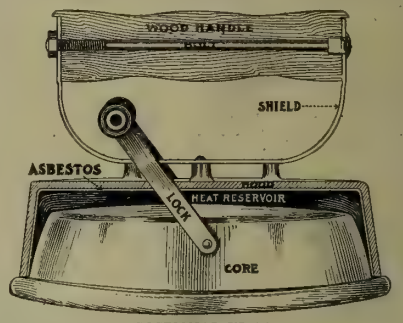
By examining the Sectional View of an Asbestos Sad Iron, you will note two principal parts: (*a*) A core or bottom; (*b*) An asbestos-lined hood or core.

The core is of solid, heat-retaining iron. The ironing-face is highly polished and slightly convex to prevent catching and pulling.

When the core is thoroughly heated it is covered with the hood.

Between the hood and the core are an asbestos lining and an air chamber.

Now, when the hot core is covered with the hood, the heat is imprisoned by the asbestos lining and the air chamber. In other words, the heat is kept in the iron—just where it is wanted.



SECTIONAL VIEW

Without the hood, the iron heat from would radiate off into space and rise against the user's hand and wrist. So the hood does two things:

First. It keeps the iron hot from three to four times as long as if the irons were exposed to the air.

Second. It makes a cool and comfortable handle.

In the hot days of summer, women appreciate the "cold handle" feature of Asbestos Sad Irons.

If you, Mr. Dealer, have never carried Asbestos Sad Irons, give them a trial this summer. Push them to the front as THE IRON FOR HOT WEATHER.

We shall be pleased to give you further information or you can ask your jobber.

The Dov

SOLE MAKERS

Canal Dover, - -

STOS IRONS

VERY PURPOSE

We Co-operate with The Trade

By Furnishing Salable Goods
By Establishing Fixed Prices
By Liberal Advertising

Co-operation expresses the true economic relation which should exist between the Manufacturer and the Trade.

The Dover Manufacturing Co. co-operates with the Trade in at least three ways :—

First. By furnishing goods which satisfy the final consumer—and thereby gratify the dealer.

Second. By the use of extensive advertising in magazines which women read—to make Asbestos Sad Irons move.

Third. By establishing fixed minimum prices—to insure the dealer a good margin of profit.

We desire the Trade to reciprocate our co-operation by giving Asbestos Sad Irons local publicity—through advertising and display; by encouraging the salespeople to demonstrate Asbestos Sad Irons whenever possible; and by seeing that the minimum prices are not violated.

Every hardware dealer should have our Book of Model Advertisements. It will be interesting to your ad writer whether you advertise Asbestos Sad Irons or not.

Return the adjoining coupon and we shall send our Book of Model Advertisements with other descriptive literature. We shall also put your name on our list for new ideas which we get out from time to time.

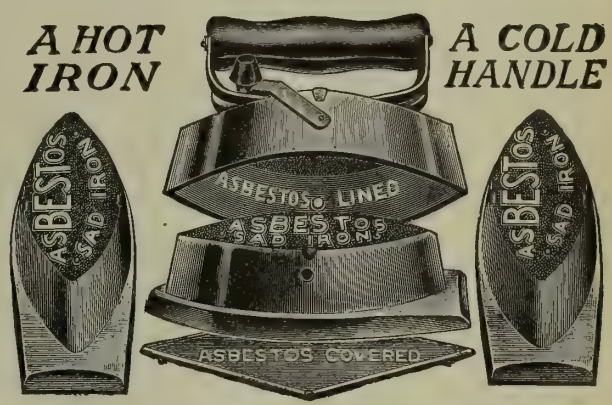
Be sure to let us know if you have Asbestos Sad Irons in stock, so that we can refer inquiries from women to you. Our advertising brings hundreds of inquiries from women who desire to know where Asbestos Sad Irons can be examined and purchased.

Do not neglect sending the coupon. Fill it out and mail it to-day—"lest you forget."

r Mfg. Co.

ND PATENTEES

- - - - Ohio, U. S. A.



LAUNDRY SET NO. 120.
Has Square-Heel Irons. Packed in single-set boxes.



PRESSING IRON NO. 80.
Weighs complete 9 pounds. This is the iron that many women want.

TEAR ALONG THIS LINE

THE DOVER MFG. CO.
Canal Dover, Ohio.

We have / have not Asbestos Sad Irons in stock. Please send us your Book of Model Advertisements and other descriptive literature.

NAME.....

ADDRESS.....

prevails on this market, and many of the local wholesale houses find it difficult to secure certain sizes. Indeed, some orders which have been received for certain sizes have been refused. Prices are firm but no change is likely to occur.

Spring Hinges—A good demand still continues on this market. Prices are firm but no advance is anticipated. We quote the following: No. 5, $7.25 per gross; No. 19, $18 per gross; No. 20, $18.80 per gross; No. 120, $20 per gross; No. 51, $9.25; No. 50, $27.50.

Apple Parers—Trade is still quiet, although a few enquiries are beginning to be received. We quote the following: Little Star, $4.85; Hudson, $5; Rocking Table, $5.25; Turn Table, $6; Canadian, $4.50.

Ontario Hardware Markets.

Office of HARDWARE AND METAL,
10 Front Street East.
Toronto, June 9, 1905.

WRINGERS have advanced according to a new list issued by the Canadian producers, the advance on two lines being $5 per dozen. The advance should have taken place some months ago, according to the manufacturers, owing to increased cost of production.

June has opened with very satisfactory business, the demand for fence wire, harvest tools, locks, building fittings and other shelf goods holding very active. Sorting-up orders are very frequent, and the volume of business being done is very satisfactory.

No scarcity of goods is reported unless it be in the finer meshes of poultry netting, screen doors, refrigerators, lawn mowers, and other Summer goods which are in demand being well stocked. The general call for building materials from all sections of the country indicates a prosperous condition, which is bound to be felt to advantage by the hardware trade.

Lawn Mowers—Demand for mowers, grass catchers, and lawn tools continues active.

Sporting Goods—Many re-orders of fishing tackle are being received. Tents and camping outfits are selling well, but little is doing in guns and ammunition.

Washing Machines—A change in quotations on wringers is noted. Demand for machines is normal.

Chain—Small sizes continue active. We quote: 1-4 inch, $6.50; 5-16 inch, $4.45; 3-8 inch, $3.85; 7-16 inch, $3.70; 1-2 inch, $3.55; 9-16 inch, $3.45; 5-8 inch, $3.35; 3-4 inch, $3.25.

Step Ladders—Business being done is very satisfactory. We quote at 10c. per foot for 3 to 6 feet, and 11c. per foot for 7 to 10 feet ladders.

Extension Ladders — Movement of goods is fairly large. Waggoner, 40 per cent. off list.

Galvanized Wire—A fair trade is being done. We still quote: $2.37 1-2 f.o.b. Cleveland.

Poultry Netting—There is still a strong demand for poultry netting and coiled spring wire.

Barb Wire—Business continues very large, and prices steady.

Wire Nails—Demand for nails is very active, with plenty of stock available to supply the trade. Nominal quotations are $2.25 f.o.b. Toronto.

Cut Nails—Sales continue to be made in large quantities. Prices remain firm. Quotations are $2.40 per keg f.o.b. Toronto.

Horseshoes—The call is very good for this season of the year. We quote as follows: "P. B." base, $3.65; "M.R.M. Co., latest improved pattern" are: Iron shoes, light and medium pattern, No. 2 and larger, $3.80; No. 1 and smaller, $4.05; snow No. 2 and larger, $4.05; No. 1 and smaller, $4.30; light steel shoes, No. 2 and larger, $3.95; No. 1 and smaller, $4.20; featherweight, all sizes, 0 to 4, $5.50; toe weight, all sizes, 1 to 4, $6.75. If shipped from factory 15c. less.

Horsenails—A seasonable demand is noted. Prices remain unaltered.

Screws—Stocks are normal, with a strong demand at firm prices.

Rivets and Burrs—No decrease in the demand is reported, while quotations continue the same.

Bolts and Nuts—A strong demand exists, but dealers are able to meet it, as stocks are fairly good. Quotations are unchanged.

Cordage—Binder twine is being shipped in large quantities to dealers in farming districts. Prices of manilla cordage have increased half a cent. We quote: Red Cap, 11 1-2c.; Tiger, 10 1-2c.; and Standard, 9 1-2c.; Cordage: manila, 15c.; British manila, 11 1-2c.; sisal, 10 1-2c.; double lathyarn, 10 1-2c.; single lathyarn, 10c.; sashcord, "Hercules," 30 to 32c.; "Star," 36 to 38c.; cotton twine, 3-ply, 24c.; 4-ply, 29c.; calking cotton, 16 1-2 to 17c.; cotton waste, colored, 6 3-4c.; white 11 to 13c.

Cement—Market is steady, demand being strong at fair prices. We quote: For carload orders f.o.b. Toronto, Canadian Portland, $1.75; American Portland, $1.75. For small orders ex warehouse: Canadian Portland, $2; American Portland, $2.

Firebrick—Stocks are being enlarged by importations. Prices are firmer. We quote: English and Scotch firebrick, 27 to 30c.; American low-grade, 20 to 25c.; high-grade, 30 to 35c.

Building Paper—Demand is strong, and merchants are buying in large quantities from the manufacturers to supply builders.

Hides, Tallow, Skins and Wool—During the week supplies of wool have been coming more freely. Trade, however, has been backward on account of the cold weather. Hides are showing a substantial advance on account of improved quality of supplies arriving, hides being entirely free of grubs and manure. We quote this week lamb skins shorn and pelts at 25c. each. We quote the following prices:

Hides, No. 1 green steers, per lb		0 10
" " 2 " " "		0 09
" No. 1 green, per lb		0 09½
" " 2 " "		0 08½
Country hides, flats, per lb	0 08	0 08½
Calf skins, No. 1, selected		0 11
" " No. 2		0 09
Deacons (dairies), each		0 80
Sheep skins		1 25
Rendered tallow, per lb	0 04	0 04½
Unwashed wool, new clip, per lb		0 14
Wool-washed fleece		0 22
Pulled wools, super, per lb	0 21	0 23
" " extra "	0 22	0 24
Lamb skins, 3horn, each		0 25
" " "		0 25

Canadian Metal Markets

SOME large orders for Canadian pig iron have been booked, and trade in this particular brand has a much better appearance. The tone of the market has become firmer, and the confidence of the purchasing public, gained thereby, is expected to considerably increase the volume of business. The falling off of German and English pig iron is becoming more pronounced, and the amount imported last week, when compared with the same week last year, was extremely small. Considerable speculation is being done respecting the sharp advance in antimony, and local dealers are anxiously awaiting the next turn of the market. Japan is said to be out of the market as a producer, and as their exports were quite large a scarcity in supply is probable.

Trade in Ontario is quite satisfactory, although considerable difficulty is still being experienced in receiving shipments from Montreal. All metals are firm in price, and sales are reported to be normal with no unusual features.

QUEBEC.

Office of HARDWARE AND METAL,
232 McGill street,
Montreal, June 9, 1905.

Pig Iron—That the Canadian iron is gradually displacing the foreign article is now becoming an assured fact. The increase in the demand has resulted in the conditions becoming firmer, but up to date the conditions do not warrant an advance. Our quotations are:

"Disc," No. 1	$16.50	delivered	Montreal.
"Dom.," No. 1	17.50	"	"
Usual difference in price for lower grades.			
Ferrona No. 1	$18 00	delivered	Montreal.
" No. 2	17.50	"	"
" No. 3	16 50	"	"
" No. 4	16.00	"	"
Londonderry	$18.50 to $19.00	"	"
Glengarnock	18.25	"	"
Gartsherrie	19.25	"	"
Carnbroe	18.50	"	"
Carron No. 1	19.00	"	"
" (special)	18.00	"	"
Ayresome No. 1	18.25	"	"
" No. 3	17.50	"	"
Summerlee	18.50 to 19.00	"	"
Clarence No. 1	17.50	"	"
" No. 3	17.00	"	"
No. Cleveland	17.50	"	"

Bar Iron—Trade conditions on this market remain the same. Prices according to later reports have a tendency to be firmer, but as yet no change has taken place. Our quotations are: Merchant bar, $1.80; horse-shoe iron, $2.02 1-2; forged iron, $2.05; best refined iron, $2.20 net cash thirty days.

Tool Steel—No change worthy of mention has occurred during the past week. Prices still continue to be firm, with the strong demand continuing unabated. We quote: Colonial and Black Diamond, 8c to 9c; Sanderson's, 8c to 45c, ac-

PORTLAND CEMENT

DRAIN PIPES, CULVERT PIPES,
SEWER BRICKS, INVERTS,
FIRE BRICKS, FIRE CLAY,
BUILDING BRICKS,
FIRE PROOFING
ROAD PAVING BRICKS
and BLOCKS.

Correspondence Invited

F. HYDE & CO.
KING, QUEEN and WELLINGTON STS.
MONTREAL

Deseronto Iron Co.
LIMITED
DESERONTO, ONT.
Manufacturers of
CHARCOAL PIG IRON
BRAND "DESERONTO."

Especially adapted for Car Wheels, Malleable Castings, Boiler Tubes, Engine Cylinders, Hydraulic and other Machinery where great strength is required; Strong, High Silicon Iron, for Foundry Purposes.

"MIDLAND"
BRAND.
Foundry Pig Iron.

Made from carefully selected Lake Superior Ores, with Connellsville Coke as Fuel, "Midland" will rival in quality and grading the very best of the imported brands.

Write for Price to Sales Agents
Drummond, McCall & Co.
MONTREAL, QUE.
or to
Canada Iron Furnace Co.
MIDLAND, ONT. Limited

Get our prices for
GALVANIZED FLAT SHEETS
THE "VANDA" BRAND
For all purposes requiring the best quality.
It is "deadflat," well galvanized, true to gauge and specially soft for working-up. We guarantee every sheet bearing our brand.

C.F. JACKSON & CO., Limited
Wholesale Merchants
Ormidale Block, Vancouver, B.C., and
Liverpool, England
Direct Importers of:
Metals of every description, Wire Rope, Portland Cements, Firebricks, Ore Sacks, Grain Bags, etc. etc.

cording to grade; Jessop's, 13c; Jonas & Clover's, 10c to 20c; "Air Hardening," 65c per lb.; Conqueror, 7 1-2c; Conqueror High Speed steel, 60c.

Merchant Steel—The strong demand of the past few weeks is showing a tendency to weaken. This change is not an unusual one, and trade is expected to remain fair until late in the Fall, when it will again become brisker. Our quotations are: Sleigh shoes, $1.97 1-2; tire, $2.07 1-2; spring, $2.75; toecalk, $2.62 1-2; machinery iron finish, $2.10; reeled machinery steel, $2.75; mild, $2 and upwards; rivet, $2 and upwards. Net cash thirty days.

Cold-Rolled Shafting—Owing to the extensive operations among the Canadian manufacturers of machinery, cold rolled shafting continues to have an excellent demand. Prices are firm and conditions continue to be steady. We quote the following: Cold-rolled shafting, 3-4 inch to 17-16, $3.85 per 100 lbs.; inch and a half to 3 inch, $3.50 per 100 lbs.

Canada Plates—The strong demand of this Spring continues unabated. Prices are firm. Our quotations are as follows: 52's, $2.35; 60's, $2.40; 75's, $2.45; dull polished, $3.60; galvanized, 52's, $3.90 to $4; 60's, $4.15 to $4.25.

Galvanized Iron—Owing to the many uses in which galvanized iron can now be used in the building trade, the demand of this Spring has been of much larger proportions than that of former years. The price has become somewhat firmer, but at present there is nothing that would indicate a change. We quote: Queen's Head, 28 gauge, $4.15; 26 gauge, $3.90; 22 to 24 gauge, $3.65; 16 to 20 gauge, $3.55; Apollo, 28 gauge, $4; 26 gauge, $3.75; 22 to 24 gauge, $3.75; 16 to 20 gauge, $3.40; Fleur-de-Lis, 28 gauge, $4; 26 gauge, $3.75; 22 to 24 gauge, $3.50; 16 to 20 gauge, $3.40; Comet, 28 gauge, $3.95; 26 gauge, $3.70; 22 to 24 gauge, $3.45; 16 to 20 gauge, $3.40; Bell brand, 28 gauge, $4; Gorbal's "Best Best," 28 gauge, $4.15; "Windmill Best," 28 gauge, $3.95; Sword and Torch, 28 gauge, $4.05; in less than case lots, 25c extra.

Black Sheets—With a steady market and firm prices conditions continue unchanged. We quote the following: 28 gauge, $2.15; 26 gauge, $2.10; 22-24 gauge, $2.05; 19-20 gauge, $2.20; 8-10 gauge, $2.30.

Antimony—During the week an advance of 2c has taken place. It is reported that the market is firm at the new quotations, and local dealers are anxiously awaiting new developments. Our quotations are: From 11 to 11½c.

Sheet Zinc—Beyond the usual fluctuations the conditions on this market practically remain the same. We quote cask lots, $7; small lots, $7.25.

Tin Plates—A good demand still continues on this market. The market is firm, but no change is looked for. Our quotations are: Cokes, $3.75; charcoal, $4.

Ingot Tin—Fluctuations continue to be as numerous as in the past, and it is hard to form a definite opinion regarding the future developments. No change has, however, occurred during the past week, and the present price still continues to range from 32½ to 33c.

Ingot Copper—Copper has become firmer and a steadier market is looked for. We quote from 16 to 16 1-4c.

Ingot Zinc—This market still has a tendency to become easy and at present

Bar Steel
Cold Rolled
Reeled Machinery
and Iron Finish
From stock or for import.
Prices right.

A. C. LESLIE & CO.
MONTREAL.



Enterprising Hardwaremen
handle our
ANTI-FREEZING PUMPS.

They know that the sale of a good Pump brings about the sale of many other things from satisfied customers.

Do you handle our PUMPS?

Write for catalogue and prices.

The R. McDougall Co., Limited
GALT, ONTARIO.

BAINES & PECKOVER
TORONTO.
Ontario Agents for
B. K. MORTON & CO.'S
"ALPHA"
HIGH SPEED STEEL
AND
Crucible Cast Steel
Large stock on hand. Send for Stock List

NOVA SCOTIA STEEL & COAL CO., Limited
NEW GLASGOW, N.S.
Manufacturers of
Ferrona Pig Iron
And SIEMENS-MARTIN
OPEN HEARTH STEEL

indications point to a decline. We quote the following: 6 1-4 to 6 1-2c.

Pig Lead—The recent increase in the demand has resulted in the market becoming firmer. No change has, however, occurred in the price list, and it is expected that this will continue unchanged for some time. Our quotations are from $3.35 to $3.45, no concessions being obtainable.

Boiler Tubes—A steady trade continues to be in progress. Prices are firm but no change is looked for. Our quotations are as follows: British and American tube, 1 1-12 inch, 8 1-2c; 2 inch, 8 1-2c; 2 1-2 inch, 10c; 3 inch, 12 1-4c; 3 1-2 inch, 16c; 4 inch, 20c; 5 inch, 45c. Price per foot net.

Scrap Metal and Old Material—Generally speaking, the conditions on this market remain unchanged. Numerous inquiries respecting old rags are being received from the English market, and it appears as if a good demand might originate from that market. Old rubbers continue to be firm, and present prospects point to a continuation of firm prices. Prices, with the exception of wrought scrap iron, are all firm, and present indications point to a continuation of present conditions. We quote the following prices: Heavy copper and wire, 12 3-4c; light copper, 11 1-2c; heavy red brass, 10 1-2c; yellow brass, from 8 3-4c to 9c; light brass, 3c; lead, 2 1-2c; zinc, 3 3-4c; machinery cast scrap, $14.00; wrought scrap, $14.00; stove-plate scrap, $11.00; No. 1 country rags, 75c to 90c. per hundred lbs.; old rubbers, 5 1-4 to 5 1-2c per lb.

ONTARIO.

Office of HARDWARE AND METAL,
10 Front street east,
Toronto, June 9, 1905.

Pig Iron—Trade is quiet, although an increased demand is noted. Quotations continue at:

Middlesboro, f.o.b., Toronto	$20 00	$20 50
Hamilton, No. 1, at furnace	18 00	18 50
" No. 2, "	17 50	18 00
Midland, No. 1, "	....	18 50
" No. 2, "	....	18 00
Radnor, at furnace	....	30 00
Londonderry, at furnace	16 50 to	17 00

Bar Iron—A steady business is being done. Prices continue as follows: $1.85 f.o.b. Toronto, with discount of 2 per cent.; for extras as cut to length, while rolling, 2 feet and over, 10c. per 100 lbs.; 1 foot and under 2 feet, 15c.; under 1 foot, 20c.; over 20 feet, by special agreement according to length and size.

Tin—Demand for goods is fairly strong, and prices continue firm at 33 to 34c. per lb.

Galvanized Sheets—Demand for stocks is heavy and prices the same.

Tin Plates—Trade is active at firm prices. Stocks are being enlarged.

Canada Plates—Much business is being done at unchanged prices.

Brass—Trade continues active and prices firm. Discounts are 10 per cent.

Lead—Prices continue firm, with a normal trade being done. We still quote: Pig lead, $3.80 per 100 lbs., and bar lead, $4.80 per 100 lbs.

Zinc Spelter—Active buying is reported, the same quotations continuing to govern. We quote: 7c. per lb. for foreign and 5 1-2 to 5 3-4c. per lb. for domestic.

Copper—Business is fairly active at firm prices. We quote: Ingot copper, 15 3-4 to 16c. per lb., and sheet copper, 21c. per lb.

Antimony—An advance of 1c. per pound is reported, owing to a shortage in the supply.

Old Material—Trade is quiet, with normal receipts from country districts. Brass is scarce, and little is doing in iron. Rags and old rubbers are fairly active. Light brass and cast scrap have been shaded in prices. We again quote: Heavy copper and wire, 12 1-2c. per lb.; light copper, 11c. per lb.; heavy red brass, 10 1-2c. per lb; heavy yellow brass, 9c. per lb.; light brass, 6 1-2c. per lb.; tea lead, $2.40 per 100 lbs.; heavy lead, $2.60 per 100 lbs.; scrap zinc, 4c. per lb.; iron, No. 1 wrought, $9 to $10, No. 2 wrought, $3 to $5; machinery cast scrap, $13; stove plate, $10; malleable and steel, $5; old rubbers, 5c. per lb; country mixed rags, 65c. per 100 lbs.

Coal—Quotations have increased 10c., and are now at the June figures. Fair supplies are being received, although it is with difficulty that orders placed with producers are filled. We quote: Anthracite in cars at bridges: Grate, $4.95 per gross ton; egg, stove and nut, $5.20 per gross ton; pea, $3.60 per gross ton.

Standard Hocking, soft coal, in cars, f.o.b. at mines: Lump, $1.35; 3-4 inch, $1.25; run of mine, $1.05; nut, 90c.; N. P. and S., 60c.; slack, 40c.; box cars 10 cents per ton additional.

Youghiogheny soft coal in cars, bonded at the bridges: 1 1-4 inch, $2.45; 3-4 inch, $2.35; mine run, $2.35; slack, $1.80.

For Manitoba Metal Markets see page 44.

GET THE HABIT

of dropping us a card a few days before you start for Montreal or Toronto on a business trip telling us where you are going to stay. We want to print it in the "Buyers in Town" department before you arrive.

MINES AND MINERALS.

The steel rail plant at Sault Ste. Marie has filled an extensive order for 80-pound rails for the Canadian Pacific Railway, and is now turning out 100-pound rails for the Michigan Central for use on their Canadian lines. These are the first rails of this weight made by the company.

* * *

The Americans are to have competition in the Montreal market for anthracite coal. There is a steamer on the way out from Wales with a cargo of 4,500 tons of anthracite. The coal is to be delivered partly at Quebec.

* * *

Under directions of Hon. Mr. Foy the Bureau of Mines has made arrangements for carrying on during the present season a systematic exploration of certain portions of New Ontario, including both mineral-bearing regions and districts believed to be more agricultural in their character.

* * *

The Intercolonial Coal Co. have placed an order for eighty thousand red bricks for their fire-brick ovens with the Sylvester Brick Co., and the Dominion Iron & Steel Co. have placed an order with the Intercolonial Coal Co. for thirty thousand fire brick.

* * *

The Iron Mountain group of twenty-two claims of hematite iron, on the west arm of Quatsino Sound, Vancouver Island, have been purchased for $75,000 by J. A. Moore and William Piggott, of Seattle. The purchasers are in negotiation with prominent Eastern Canadian capitalists and contemplate the establishment of blast furnaces, involving an initial expenditure of $100,000, contiguous to the ore supply.

* * *

The Standard Coal & Railway Co. are stated to have struck a large seam of coal on their property, at Half-Way River, Cumberland County, N.S. At a depth of 2,350 feet the thickness is from eight to ten feet.

* * *

The Colchester Coal & Railway Co., Colchester, N.S., have asked the municipality for exemption from taxation and for a small grant towards the purchase of a right of way for railway from the Intercolonial line to their mines.

* * *

The Dominion Coal Co. are not likely to send any coal to Sweden this year, as they have been doing for several seasons past. This is owing to a break in the contract between the Dominion Iron & Steel Co., and the Johnson Line of steamers by which the latter boats were to bring Swedish ore to Sydney as return cargoes.

* * *

A company to be known as the British America Coal & Railway Co. has been organized in Sydney. The object of the company is to develop a number of coal areas in Cumberland County and other parts of Nova Scotia.

* * *

It is stated that the Dominion Coal Co. have decided upon the adoption of shearing machines in their mines at Glace Bay, N.S. With these appliances coal can be mined with the use of less powder than is required to blow down coal cut by ordinary mining machines, with the result that a larger percentage of the product reaches the surface in lump form.

* * *

The Minister of Railways has awarded a contract to the Dominion Iron and Steel Co. for the supply of 25,000 tons of steel rails for the Intercolonial; delivery to be made between now and October.

UNITED STATES METAL MARKET.

Advance proofs furnished HARDWARE AND METAL by The Iron Age June 8, 1905.

THE week has been a very uneventful one in nearly all directions. What is almost a deadlock between buyers and sellers of pig iron continues, the only fair degree of activity being in the Chicago district. Virginia

furnaces have sold there and in St. Louis basic pig to the extent of about 7,000 tons, and inquiry for this class of iron is cropping up in other directions.

The Birmingham market is weaker, in spite of the fact that there is some uneasiness over the possibility of trouble with the coal miners. The absence of a demand for pig iron by the large steel companies is causing pressure upon the market on the part of merchant furnaces which usually supply them, and which are now accumulating metal.

The market for steel is easier, and some of the interests which have had little to offer in the past are now hunting for business.

A moderate amount of additional tonnage has come up in plates and shapes. Among the larger orders placed is one lot of 10,000 tons for a large industrial plant in Milwaukee.

In the lighter lines the shading of prices continues and is becoming more general. Black sheets have sold below 2.25c for No. 28, and some business in iron bars has been secured only by concessions. In the wire trade there has been a slight improvement in some quarters.

Export sales are being more actively pushed in all directions, and special efforts are being made to market more highly finished material. Thus quite a considerable business in sheets for export has been done lately.

Our blast furnace statistics show that production for May, a month of 31 days, was 1,969,455 tons, or the largest on record, that being the result of the impetus of the enormous capacity with which we entered the month. The productive capacity, however, fell off during the month from 452,031 tons on May 1 to 442,892 tons on June 1. It is well known that during the last week additional furnaces have stopped work.

On the other hand, stocks in the hands of the merchant furnaces have increased by 63,000 tons. It should be noted that this increase does not apply to the whole product of the country, but to the merchant furnaces only, whose production in May was 680,072 tons. On the face of the returns it looks as though general consumption of pig iron had declined during May. It must not be forgotten, however, that consumers are forcing the producers to bear the burden and are drawing down their own reserves to the lowest point.

If you are catering to the building trade you know that builders who have once used "Hayes" Metallic Lathing cannot be induced to use any other. Its grip upon the mortar is so tenacious that it ta' es but half the quantity required by wood or cheap metal lat ing, makes partitions much narrower, and has a lightness, rigidity and freedom from "buckling" found in no other ma' e of metal lathing. It's fire-proof, rat-proof and sanitary. No live builder should overlook the superiority of "Hayes" Metallic Lathing.

OUR NEW $10,000 CATALOGUE We have just issued the most complete Catalogue ever offered to the Metal Trade. It is a veritable encyclopedia of all that's practical and beautiful in the Art Manipulation of Sheet Metal. Book contains 440 pages, superbly bound and illustrated. We send it free upon request to any builder, contractor or dealer of responsibility.

THE METALLIC ROOFING CO.
OF CANADA, Limited
Manufacturers Toronto, Canada
(Established Twenty Years)

We also manufacture:
"Eastlake" Steel Shingles
"Empire" Steel Shingles
"Metallic" Steel Siding
"Metallic" Sheet Metal Fronts
"Metallic" Galvanized Cornices
"Metallic" Galvanized Crestings
"Metallic" Galvanized Finials
"Metallic" Galvanized Eavetroughs
"Metallic" Galvanized Conductors
"Metallic" Pressed Zinc Ornaments
"Halitus" Ventilators
"Metallic" Embossed Steel Ceilings
"Metallic" Skylights
and sheet metal building materials of all kinds.

Nova Scotia Trade News

Halifax, N.S., June 6, 1905.

BUSINESS shows very little improvement over last week. Collections continue about the same. Turpentine and raw and boiled oils have a tendency to advance, though the prices at present are unchanged. Steel is slightly higher and a further advance is looked for in raw material.

Bar iron is scarce and the price is high. The mills are reported to be rushed and as a consequence are very slow in delivery. Steel tire is quoted at $2.40, spring at $2.75, machine at $3, and caulk the same, all base prices. The demand is good. The jobbers say there is no money in these articles at the present prices.

Some large sales have been made of wire fencing, and sheet lead and pig lead are in good demand. Dealers are looking for a probable advance in rire nails. Cement is selling freely at last quotation. The steamer Florence now on her way from England has a consignment of 5,000 barrels for the Dominion Iron & Steel Co., Sydney.

The Robb Engineering Co., Amherst, have received an order from the Windsor and Tecumseh Electric Railway Co., of Walkerville, Ont., for a 450-horse-power Robb-Armstrong Corliss engine and two 300-horse-power Robb-Mumford boilers; also for a large steel smoke stack, condenser and all piping complete.

According to advices received here from North Sydney, the extensive iron areas at Barrasois and George's River, C.B., have been bonded to the Londonderry Iron Co. for $75,000, for three months. The company will start development work at once.

The extensive copper areas at George's River, which are controlled by Cape Breton people, have been bonded to Halifax parties, who, it is said, are after the Matheson copper areas in the same district.

There is a report in Parrsboro that iron works will be established there, and that the iron deposit at Point Lepreaux, N.B., will be taken across the bay and manufactured with the assistance of the Cumberland County coal.

At Sydney the British-American Coal and Railway Co. have been formally organized for the purpose of developing the coal areas in Cumberland County. The company claim they have upwards of fifteen millions of tons of coal available near the tidewater of the Bay of Fundy. The company is capitalized at $1,000,000 and was incorporated by an Act of the Legislature of Nova Scotia last year.

LONDON METAL MARKETS.

From Metal Market Report, June 7, 1905.

Pig Iron—Middlesboro No. 3 foundry is quoted at 45s. 6d, and Scotch warrants at 49s. 4d, making prices as compared with last week 4 1-2d lower for Middlesboro and 6s. lower for Scotch warrants.

Tin—Spot tin opened steady at £136 7s. 6d, futures at £135 2s 6d, and after sales of 70 tons of spot and 70 tons of futures closed quiet at £136 7s 6d for spot and £135 2s 6d for futures, making price as compared with last week 7s. 6d lower on spot and 10s. lower on futures.

Copper—Spot copper opened easy at £65 10s., futures £65 10s., and after sales of 200 tons of spot and 250 tons of futures closed steady at £65 11s. 3d for spot and £65 11s. 3d for futures, making price as compared with last week £1 1s. 3d higher on spot and 18s. 9d higher on futures.

Lead—The market closed at £12 18s. 9d, making price as compared with last week 3s. 9d higher.

Spelter—The market closed at £23 12s. 6d, making price as compared with last week unchanged.

Remarkable how soon that window gets dirty, isn't it? Apply some elbow grease.

A rolling stone gathers no moss, neither does an unchanged window gather any trade.

BUSINESS FOR SALE.

HARDWARE business on Main Line C.P.R. in Manitoba. Stock fixtures $9 000. Solid stone store $3,500. Terms: Half cash, balance on easy payments. Purchaser can lease store if preferred. This is an old and well established business, paying handsome profits. Good reason for selling. For full particulars apply Box 256 HARDWARE AND METAL, Toronto. (24)

FOR SALE.

PLUMBING and tinsmithing business for sale. Thoroughly established in prosperous mining town in British Columbia. Stock, including tools and machines, $800. Reasons for selling, party retiring. For further particulars apply to Merrick, Anderson & Co., Winnipeg, Man. (23)

STEPHENS SHINGLE STAINS

More and more every year this mode of roof treatment is coming into popular favor. Partly because they are cheaper than paint, but chiefly that they are a scientific combination of Creosote (the best wood preservative known) Manitoba Linseed Oil, coloring pigments and are excellent wood preservatives, besides imparting artistic and permanent color tones to the shingles. We make these stains in all the popular greens, reds, browns, etc., in all thirteen beautiful tints.

Sample Shingles and prices sent on request.

MANUFACTURED BY

G. F. STEPHENS & CO., Limited

PAINT AND COLOR MAKERS

WINNIPEG, - CANADA

Hardware and Metal Conditions in Manitoba.

(Market quotations corrected by telegraph up to 12 a.m. Friday, June 9, 1905.)

Office of HARDWARE AND METAL
Room 511 Union Bank Building,
Winnipeg, Man.

SEVERAL good contracts have been secured recently by the Manitoba Iron Works, Limited, from Portage La Prairie Council. They have now secured the contract for two 66-inch boilers, as well as for the 250,000 gallon steel water tower and all the cast-iron work for the manhole and valve covers for the sewer system. New bolt-making machinery has been installed in their plant, and a large quantity of heavy bridge and structural iron work is being turned out.

* * *

General business continues very active, trade being stimulated in all lines by unusually encouraging crop reports. Interest in the local market centres in the strong position of turpentine, which was advanced to $1.10 per gallon in barrels on Friday morning of last week.

* * *

In last issue reference was made to Mr. T. L. Waldon as manager of the Pease-Waldon Co. This should have read C. D. Waldon, as, of course, T. L. Waldon is manager of Caverhill Learmont and Co.'s western business. Hardware and Metal regrets the mistake.

* * *

Screen Wire Cloth—Still selling well in assorting orders. Price unchanged: $1.55 per 100 square feet.

Poultry Netting — In brisk demand. For the 2-inch mesh in No. 19 gauge wire, prices are as follows:

24-inch roll, perroll	$1 20
30 " "	1 50
36 " "	1 80
48 " "	2 40
60 " "	3 00
72 " "	3 60

Wire—Steady demand for wire and fencing of all kinds. Prices are:

Barbed wire, 100 lb	$2 85
Plain galvanized, 6 to 8	3 39
" 9	2 50 2 90
Plain galvanized, 10	3 50
" 12	3 10
" 13	3 20
" 14	3 90
" 15	4 45
" 16	4 60
Plain twist	2 85
Staples	3 35
Oiled annealed wire, 10	2 96
" 11	3 02
" 12	3 10
" 13	3 20
" 14	3 30
" 15	3 45

Annealed wires (unoiled) 10c. less.

Horseshoes—Business is still fairly active. Prices are:

Horseshoes, iron, No. 0 to No 1	$4 55
No. 2 and larger	4 30
Snow shoes, No. 0 to No. 1	4 80
No. 2 and larger	4 55
Steel, No. 0 to No. 1	4 75
No. 2 and larger	4 50

Horsenails—Discounts are as follows: "C" brand 40, 10 and 7 1-2 per cent., "M" brand and other brands 55 and 60 per cent. Add 15c. per box.

Wire Nails—Moving in very large quantities. Base price: $2.85 per keg.

Cut Nails—Base price $3 per keg. Very little demand owing to the fact that wire nails are cheaper.

Screws—Demand continues very brisk. Discounts are still as follows:

Screws, flat head, iron, bright	85 and 10 p.c.
Round " "	80 p.c.
Flat " brass	75 and 10 p.c.
Round " "	70 and 10 p.c.
Coach	70 p.c.

Nuts and Bolts—Discounts are quoted as follows:

Bolts, carriage, ⅜ or smaller	60 and 5 p.c.
" 7-16 and up	55 p.c.
Bolts, machine, ⅜ and under	55 and 5 p.c.
" 7-16 and over	55 p.c.
Bolts, tire	65 p.c.
Bolt ends	55 p.c.
Sleigh shoe bolts	65 and 10 p.c.
Machine screws	70 p.c.
Plough bolts	55 p.c.
Square nuts, case lots	3c. discount.
" " small lots	2½c. "
Hex " case lots	3c. "
" " smaller lots	2½c. "

Rivets—Discounts continue as follows:

Rivets, iron	60 and 10 p.c.
Copper, No. 8	29½
" No. 12	33

Coil Chain—We quote:

Coil chain, 3-16 inch	9.25
" ¼ inch	7.25
" 5-16 inch	5.20
" ⅜ inch	4.60
" 7-16 inch	4.45
" ½ inch	4.30
" ⅝ inch	4.10
" ¾ inch	4.00

Shovels—Discounts on spades and shovels continue 40 and 5 per cent.

Harvest Tools—Discount 60 per cent.

Axe Handles—We again quote as follows:

Axe handles, turned, s.g.hickory, doz	$3 15
No. 1	1 90
No. 2	1 60
Octagon extra	2 30
No. 1	1 60

Axes—We quote:

Axes, chopping	$ 6 75 to 12 00
" double bitts	12 00 to 18 00

Files—We again quote as follows:

" Arcade "	70 and 10 p.c.
" Black Diamond "	60 p.c.
" Nicholson's "	62½ p.c.

Building Paper—The demand for all kinds of building paper continues very brisk. Prices are unchanged. We quote:

Anchor, plain	55c.
" tarred	70c.
Pure fibre, plain	60
" " tarred	80c.

Ammunition, Etc.—We again quote:

Ammunition, cartridges, Dominion R.F.	50 and 5 p.c.
Dominion, C.F., pistol	30 p.c.
" military	15 p.c.
Ammunition, cartridges, American R.F.	33⅓ p.c.
C.F. pistol	5 p.c.
C.F. military	10 p.c. advance.
Loaded shells:	
Eley's and Kynoch's soft, 12 gauge	
black	15 00
chilled, 12 gauge	16 00
soft, 10 gauge	18 00
chilled, 10 gauge	19 00
Shot, Ordinary, per 100 lb	6 25
Chilled	6 75
Powder, F.F., keg, Hamilton	4 75
F.F.G., Dupont's	5 00

Tinware, Etc.—We quote again as follows:

Tinware, pressed, retinned	70 and 10 p.c.
" " plain	75 and 2½ p.c.
" pieced	30 p.c.
Japanned ware	37½ p.c.
Enamelled ware, white	45 p.c.
" Famous	50 p.c.
" Imperial	50 and 10 p.c.

Cordage—Business is normal. Prices are:

Rope, sisal, 7-16 and larger, basis	11 25
Manila, 7-16 and larger, basis	15 25
Lathyarn	11 25

Solder—Quoted at 21 cents per lb.

Iron and Steel—The market is active and steady. No new features of note. We quote:

Bar iron (basis)	2 50
Swedish iron (basis)	4 75
Sleigh shoe steel	2 65
Spring steel	3 00
Machinery steel	3 50
Tool steel, Black Diamond, 100 lb	9 50
Jessop	13 00

Black Sheets—Prices continue steady. We quote:

Black sheets, 10 to 16 gauge, 100 lb	3 50
18 to 22 gauge	3 75
24 gauge	3 90
26 gauge	4 00
28 gauge	4 10

Galvanized Iron — Brisk demand; steady prices. We quote:

Apollo, 10 gauge	4 00
18 and 20 gauge	4 00
22 and 24 gauge	4 25
26 gauge	4 25
28 gauge	4 50
30 gauge or 10½ oz	4 75
Queen's Head, 24 gauge	4 25
26 gauge	4 50
28 "	4 75

Tin Plates—Prices are quoted as follows:

Tinplate, IC charcoal, 20 x 28, box	9 50
" IX "	11 50
" IXX "	13 50

Canada Plates—Demand is active. Prices continue as follows:

Canada plate, 10 x 21, 10 x 24	3 25
Canada plate, 20 x 28	3 50
Canada plate, full polished	4 00

Sheet Zinc—The price of cask lots is $8.25 per 100 lbs.; price of broken lots is $8.75.

Pig Lead—$4.50 per 100 lbs.

Iron Pipe—We quote:

Black iron pipe, ⅛ inch		
" ¼ "		2 45
Black iron pipe, ⅛ inch		2 65
" ⅜ "		3 00
" ½ "		3 80
" 1 "		5 50
" 1¼ "		7 45
" 1½ "		8 95
" 2 "		12 30

Petroleum — We quote unchanged prices, as follows:

Silver Star, per gal	20½c.
Sunlight "	21½c.
Eocene "	23½c.
Pennoline "	24½c.
Crystal Spray "	23½c.
Silver Light	21½c.

(In barrels f.o.b. Winnipeg.)

Paris Green—In seasonable demand. We quote:

English Paris Green—Petroleum barrels, 14 1-4c.; arsenic kegs, 14 1-2c.; 50 and 100-lb. drums, 15c.; 25-lb. drums, 15 1-2c.; 1-lb. tins, 17c.; 1-2-lb. tins, 19c.; 1-lb. cardboard boxes, 16c.; 1-2-lb. ditto, 18c. Terms 2 per cent. off for cash in 30 days; 90 days net.

Canadian Paris Green—50-lb. drums 17c., bulk 18c.; in 1-lb. packages 20 cents.

Paints and Oils—Turpentine is held firmly at the advance to $1.10 in barrels, which price was reached at noon on Friday, June 2nd. Linseed oil is steady at the recent advance. All classes of mixed paints and general painting materials are moving in large quantities. We quote:

White lead (pure)	$5 00 to $5 50
Bladder putty, in bbls	0 02½
" " in kegs	0 02¾
Turpentine, pure in barrels	$ 1 10
Less than barrel lots	1 15
Linseed oil, raw	0 62
Boiled	0 65

Window Glass—Held firmly at the recent advances. We again quote:

16-oz. O.G., single, in 50-ft. boxes—	
16 to 25 united inches	$2.40
26 to 40 "	2.65
16-oz. O.G., single, in 100-ft. cases—	
16 to 25 united inches	4.25
26 to 40 "	4.50
41 to 50 "	5.00
51 to 60 "	5.50
61 to 70 "	6.00
21-oz. C.S., double, in 100-ft. cases—	
26 to 40 united inches	7.35
41 to 50 "	8.40
51 to 60 "	9.45
61 to 70 "	10.50
71 to 80 "	11.55
81 to 85 "	12.60
86 to 90 "	14.75
91 to 95 "	17.30
96 to 100 "	

THE GREAT WEST WIRE FENCE CO., Limited

Sole Owners for Dominion of Canada for



Office and Factory:
76-82 LOMBARD ST.,

Manufacturers of

Railway, Farm, Lawn and Ornamental Fences

Field erected type and all made of No. 9 Hard Coiled Steel Wire. Easily erected and sold in quantities to suit purchaser. Liberal discounts to dealers handling our goods. Also manufacturers of

Steel Farm and Lawn Gates

and dealers in fencing tools of all descriptions.

WINNIPEG, Manitoba

FOR **STORAGE** IN **WINNIPEG**

Handling and reshipping of goods. Brick warehouse with track facilities

MACKENZIE BROS. WRITE 244 PRINCESS ST. OR P.O. BOX 579 **WINNIPEG.**

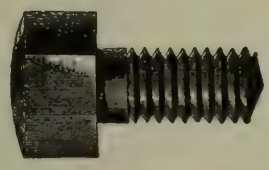
WIRED GLASS

The use of which is past the experimental stage, and is now recognized as a necessity by up-to-date business men.

Money saved is money made, and WIRED GLASS will save you money on INSURANCE. Samples and Particulars on Application.

ASK FOR VEST POCKET MAP OF MANITOBA

THE WINNIPEG PAINT AND GLASS CO., LIMITED
WINNIPEG, CANADA



THE JOHN MORROW MACHINE SCREW COMPANY, Limited

Manufacturers of

Set and Cap Screws, Special Milled Work, Engine Studs, Etc. Cold Punched Nuts of every variety of finish.

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OUR AGENTS

MESSRS. WAYLAND, WILLIAMS & DADSON
28 BOARD OF TRADE BUILDINGS, MONTREAL

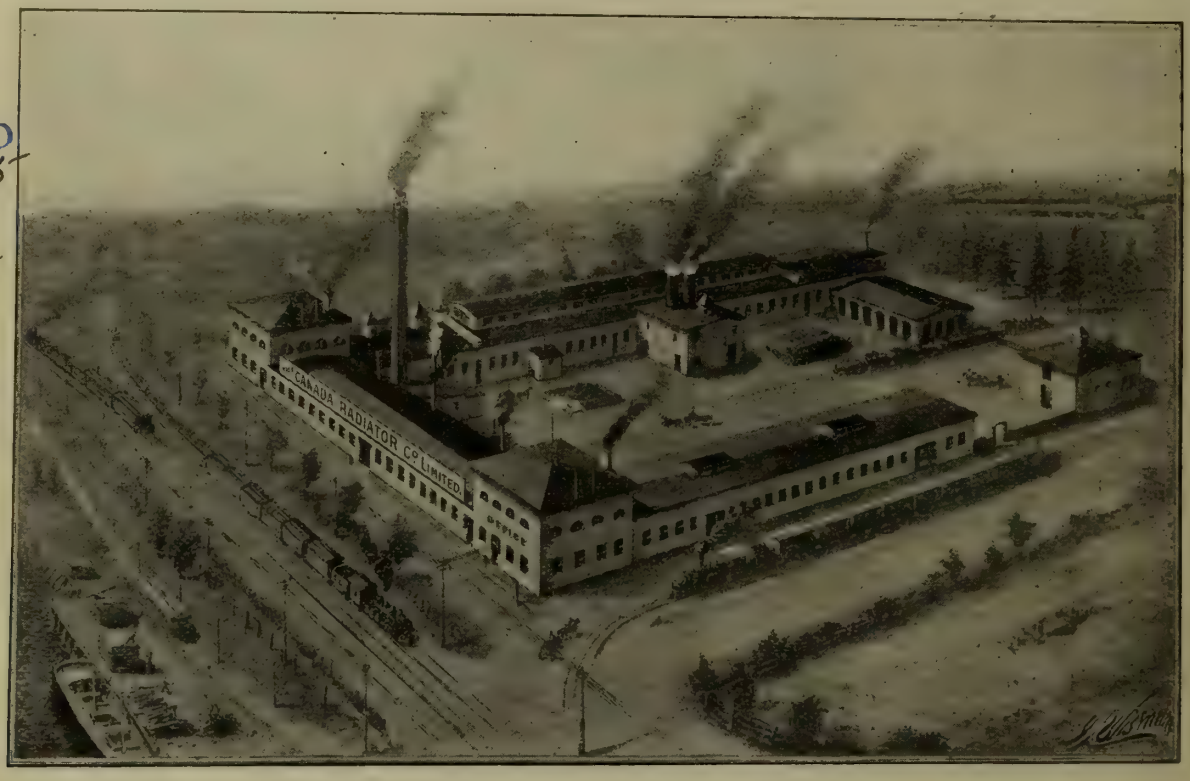
are carrying a stock of our goods and will be pleased to have your inquiries for **Hex.** and **Square Cap Screws, Square Head Set Screws, Bright Washers,** and **Bright** and **finished Hex. Nuts.** The quality is right, and we can give you good deliveries.

ACME LATHE & PRODUCTS CO., LTD.
MANCHESTER.

CANADA RADIATOR CO. MOVE.

OPERATIONS, which have been under headway for the past two years, in connection with the construction of the new manufacturing plant of the Canada Radiator Co., near Lachine, P.Q., are nearly completed. Up to the present time the manufacturing of radiators by this company has been carried on at Port Hope, Ont. The continual increase in the demand for these radiators has, however, necessitated the erection of a plant capable of an output much larger than that which was possible at the old one. Land in the neighborhood of Lachine was obtained at a nominal figure, and the shipping facilities being of the best, the eastern location was chosen.

The shape of the new plant, as will be noticed by the accompanying illustration, is in the form of a square. The building itself covers some two acres of land, and in connection an additional six acres, adjoining the plant, have been secured, which may be used for storing pig iron and kindred articles. With the exception of two corners, the entire plant is constructed on a one-storey basis. The two upper storeys on these two corners are used as a private office and a light storage room, while at the farther corner, and farthest from the entrance, the upper storey consists of a carpenter shop, measuring some 65 ft. square. After passing through a door in the rear of the main office, on the ground floor, we enter the large storeroom, which measures 200 ft. in length and 80 ft. in width. Then turning to our left we enter the machine shop, a room with whitewashed walls and pillars and numerous windows running the entire length of the room on both sides, which gives the room on the inside a very bright appearance. This room measures 285 ft. by 65 ft. The room adjoining this department is the testing room which, by the way, is directly below the carpenter shop. Turning this time to our right, we enter the foundry, a long narrow room measuring some 210 ft. in length and 70 ft. in width. In this room the ceiling, or rather the roof, is supported by means of steel frames and arms. This does away with the room taken up by the pillars, and which cause considerable inconvenience to moulders. Proceeding further, we enter the room at the next corner, the core room, in which there is installed two large coke ovens. A sand room adjoining this department completes the circuit of departments and rooms. The structure is strongly built, and is so designed as to cause the least amount of delay while manufacturing. The fuel supply at the plant in Port Hope is now almost consumed, and it is expected that the machinery will be moved in a few days. Preparations are being hurried forward, and it is expected that the new plant will be started early in the coming month.



New Plant of the Canada Radiator Company, Lachine, Que.

PERSONAL AND TRADE NOTES.

Messrs. Lynch & Baird have taken over Mitchell & Co.'s hardware store at Cayuga.

John Pendrel, hardware merchant, 75 Dundas street, Toronto, has forsaken bachelorship for benedictdom.

Mr. H. Pitts, hardware merchant, Cornwall, was a visitor to the paint and oil trade in Montreal this week.

Mr. A. Gingerich, Tavistock, has sold his hardware business to Mr. C. Klein, formerly clerk in the Glasgow Warehouse.

Mr. Robert Munro, managing director of the Canada Paint Co., of Montreal, has returned from a business trip to Winnipeg.

Mr. F. J. Travers, manager of the Canada Radiator Co., is about to leave on a business trip to the Maritime Provinces.

Considerable alterations and improvements are being made in Pearsall's hardware store at Yonge and McGill streets, Toronto.

Mr. MacKay, representing the Corbin Cabinet Lock Co., of New Britain, Conn., was a visitor to the Montreal wholesale hardware trade this week.

A new hardware store has been opened in Winnipeg by Messrs. Lennox & Butt. They will carry shelf hardware, builders' and carpenters' supplies, house furnishings, etc.

Mr. J. A. Mitchell, Weyburn, has received plans for his proposed hardware store, to be built of brick and stone, two storeys high and with plate glass windows.

Mr. Warren, manager of the Warren Sporting Goods Co.'s store, King street east, Toronto, has returned to the store much improved in health after his recent vacation.

Messrs. E. G. Prior & Co., Victoria, B.C., have been awarded the contract for the supply of steel for the new Canadian Pacific Hotel being erected in that city.

Mr. A. J. Teakle, manager for H. & J. Young, wholesale hardware merchants, Quebec City, visited Montreal for a few days last week calling upon the trade.

Mr. George W. Baines, of the Metal Shingle and Siding Co., of Preston, Ontario, has been spending a fortnight in Winnipeg in the interests of his firm. The contract for metal ceilings, etc., in

the new Eaton building was secured by this firm, and they are establishing a good connection in the west.

Boulter & Gilmore's hardware store, Hamilton, was robbed last week, and between $35 and $40 was taken from the cash drawer, besides several revolvers and some cutlery.

A. Duncan & Co., Petrolea, are having extensive alterations made on the front of their hardware store. Leaded glass is being installed over the door and plate glass windows.

Consumers' Cordage Co., Limited, of Montreal, have appointed the Commercial Twine Co., Limited, distributing agents for their small twines for the City of Montreal and vicinity.

Mr. Joseph Craig, of the Canada Paint Co., Montreal, has just returned from his trip through the Lower Provinces. He has met with marked success, and after a few days' sojourn at the head office, he will again resume work on his route.

Messrs. J. S. Mitchell & Co., of Sherbrooke, have purchased a stock of nearly one thousand squares of Pedlars' steel shingles and will handle this trade in the Eastern Townships as heretofore. This speaks well for trade in that part of the Dominion.

Mr. R. G. How, Canadian representative of the Wilkinson Sword Co., London and Sheffield, passed through Toronto this week on his return from Winnipeg. Mr. How has gone on to Montreal where he will make arrangements to establish a branch office.

The hardware business conducted by C. E. Macnab at Moose Jaw has changed hands, the purchaser being Mr. Siddon, a son-in-law of Mr. J. A. Laurie, of the Great West Lumber Co., of that city, and Mr. Frank Hockin, who has managed the business for the past year.

J. J. Mott's hardware store, corner of College and Markham streets, Toronto, has been purchased by Messrs. H. & G. Jamieson, who are making great improvements in both exterior and interior. Mr. H. Jamieson has been with A. Welch & Co., Toronto, for ten years, while Mr. G. Jamieson has for a long time been connected with W. L. Parrish's store at Port Perry.

June is creating sad havoc amongst the hardware fraternity in Montreal, according to Cupid's reports from the Royal City. One wholesale hardware house reports that seven of its travelers intend solving the problem of transforming two into one this month, while another house state that three of their valuable employes are undertaking a similar task; and still another firm in the Royal City report that certain conditions lead them to believe that something of a like nature is about to occur amongst their staff.

METAL LATH CONTRACTS.

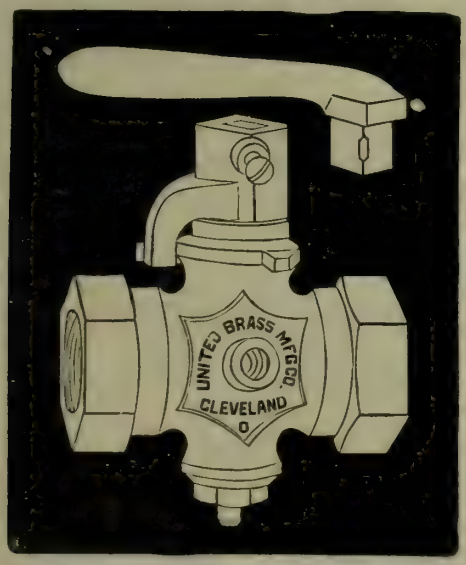
Pedlar People, of Oshawa, manufacturers of expanded metal lath, metallic shingles and sidings, etc., report a good sale of fireproof goods. The following are some of the contracts and orders which have been received by them at Montreal: The placing of expanded metal lath in the new Government buildings at Ville St. Louis, P.Q.; fireproofing of Strathcona Hall in connection with McGill University, by using their perfect lath; expanded metal lath in the new Hampton apartments; and the lathing of the two new branches which are being erected for the Molsons Bank, Montreal.

A FIREPROOF BUILDING.

The new building which is being erected for George W. Reed & Co., Montreal, is the first of its kind to be erected in the City of Montreal. The floors, pillars, beams, walls, steps, stairs, and partitions are made of concrete, being built on the Kahn reinforced system. The window sashes and frames are manufactured of galvanized iron, wire glass taking the place of plain window glass. The doors are made of wood covered with galvanized iron. Each door is attached to a heavy weight by means of a rod secured to a hook on the door which is manufactured of soft material. This weight allows the door to work easily while in use, but should a fire originate in the building, the least amount of heat will melt the small hook which secures one end of the rod, thereby allowing the weight to drop and forcing the door forward at such a speed which will result in it becoming securely locked and thus barring further progress to the fire. In other words, everything is being done which will in the future ensure perfect safety.

UNITED COCKS

Are Installed by LEADING PLUMBERS everywhere because THEY ARE THE BEST.



We Manufacture a Complete Line of High Grade

STOPS and STOP and WASTE COCKS, COMPRESSION WORK, FULLER WORK, SOLDERING NIPPLES, UNIONS, VALVES, ETC.

WRITE FOR CATALOGUE AND DISCOUNTS.

United Brass Manufacturing Co.

CLEVELAND, OHIO, U.S.A.

IMPERIAL FRENCH GREEN

is preferred by skilled painters because of its fineness of texture, covering capacity and great durability. Acknowledged to be more permanent than Nature's Greens.

Insist on it once and you will always use it.



Be sure this label is on the can and take no other. See sample cards.

JOHN LUCAS & CO., MFRS.,
PHILADELPHIA, NEW YORK, CHICAGO.

MACARTHUR, CORNEILLE & CO., MONTREAL

PAINT, OIL AND BRUSH TRADES

CORRODING LEAD IN CANADA.

Concluded from June 3rd.

SHOULD a small portion of lead by means of the heavy pressure of the steam and light weight of the substance, fail to reach the floor after it issues from the pipe, a number of steel walls some three feet apart are built in the room adjoining the steel hopper. Openings are left at the top of the first wall and at the bottom of the succeeding one and so on. This forces the steam to have an upward and downward course until it reaches the end of the room. By this system it is hoped that when the steam is on its downward course it may impart any small particles of lead which may be clinging to the current course by the pressure of the steam. Should this process also fail to impart all the particles, the steam is then allowed to pass into a large room reserved for this purpose at the top of the building. In this room the steam will in all probability condense before it reaches the open air and any remaining particles will, therefore, drop to the floor as soon as it ceases to become a combined factor.

The lead which has reached the corroding room by means of the elevator is weighed and is then passed along a track elevated over the vats, which are similar to long barrels, the only difference being that sides are straight instead of bevelled as in the case of a barrel. Each tank, or vat, is suspended from the floor by means of a horizontal shaft. Around its shaft each tank is kept constantly revolving, with the exception of the time taken to charge and unload. The revolutions are slow, the rate of speed being set at one revolution every fifteen minutes. At present there are eighty of these tanks placed, which it is estimated will give an output of 320 tons per month. As the corroding room measures 175 by 115 feet, ample room has been left to install additional tanks as the demand increases. Each tank is ten feet in length and six feet in diameter and each charge represents a weight of 4,000 pounds. Small pipes which issue from a large main running along the end of each row of tanks transfers the gas from the cokehouse into the tank. The revolving of the tank allows the lead to be loose, and this in turn allows the gases to perform good work and after thoroughly circulating and mixing with the lead it passes an opening in the other end of the tank into a small pipe which leads to an underground main, and by means of fans and similar contrivances the used gases are conveyed through and out a tall chimney which adjoins the building. After each particle in each charge is thoroughly corroded, cars are run along underneath the tanks and by means of a trap door built in the tank the corroded lead is transferred to the car. It is then taken to the elevator, elevated to the top flat in the building and deposited in a washing machine, which thoroughly mixes it with water. As it is being mixed it passes through a small opening at the end of the machine to a number of separators, which are water-tight and which are built on an angle of forty-five degrees. The deepest part of each of these separators or runways, of which there are five, are filled with water and any uncorroded or crystalized lead immediately sinks to the bottom of the runway, the moment it touches the water, on account of its weight. By means of numerous moving scrapers attached to an endless chain, these heavy lumps are scraped from the bottom of the runway and are deposited in another part of the building where they are manufactured into red lead. The corroded lead after passing this test is transferred to a number of shallow tanks where, by means of a machine which is installed in each of these tanks, the corroded article is given a good shaking up and the water, aided by a small amount of soda, thoroughly removes all the acetic acid which may be still clinging to it. After being washed it is allowed to settle and the water is drawn off. It still may be impure, and a second time it is mixed with water. Satisfied that it is clean, it is pumped by means of centrifugal pumps to deeper tanks, which are situated in an adjoining room and just above the drying pans. After the water has become settled it is drawn off a second time, and the lead is deposited into drying pans. These pans are copper-lined and by means of an apartment underneath each pan, which is filled with steam, the lead is dried in a very short time. This method of drying is practically a new system. In connection with each set there are four of these pans which measure twenty-five feet by eight feet, by ten inches in depth. The pans which are placed above each other are encased at each end in a large hoop of cast iron. When the lead is dry, the hoops by means of machinery, are revolved and the contents of each pan are dumped into a hopper built directly beneath. The lead when it reaches the hopper passes through an opening into a chute and on to the packing machine, which packs it into barrels, ready to be shipped.

Although not in detail, this constitutes the process taken by the lead when it is in the act of becoming corroded. Every contrivance which will further the manufacture of a good quality of lead has been installed by the Carter company. The floors, machinery and apparatus, have been built and so arranged to make it impossible to waste any of the lead, and this, indirectly, will help them to put their article on the market at a close figure.















"ELASTILITE VARNISH" costs little more than ordinary varnish, wears three times as long and looks far better. It's a good thing, pleases customers. Profitable seller for the dealer. Try it.

The Imperial Varnish & Color Co.
LIMITED
TORONTO, CANADA.















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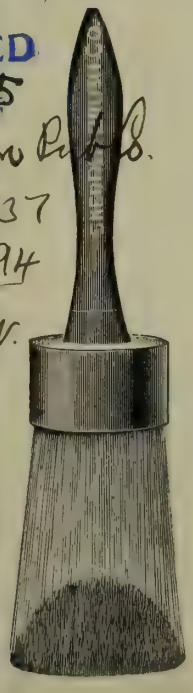
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We have a Catalogue.

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A RECORD BREAKER!!

Is what we may call the unprecedented demand THIS SPRING for

"ANCHOR LIQUID HOUSE PAINTS"

Satisfying the customer by supplying a SUPERIOR PAINT has produced the desired result, and everyone knows that a SATISFIED CUSTOMER is the best possible advertisement. That's what we aim at, and results continue to prove that it can be accomplished with our

Anchor Liquid Paints

The only **White Lead** used in which, "BRANDRAM'S B. B. GENUINE," has been the WORLD'S STANDARD for nearly 200 YEARS.

BRANDRAM BROS & CO
BRANDRAM'S B. B. WHITE LEAD
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MANUFACTURERS LONDON ENGLAND

Manufactured by

HENDERSON & POTTS, Limited
HALIFAX and ST. JOHN

HENDERSON & POTTS CO., LIMITED
MONTREAL and WINNIPEG

Paint and Oil Markets

QUEBEC.

Office of HARDWARE AND METAL,
232 McGill Street,
Montreal, June 9, 1905.

AS usual at this time of the year, the paint, oil and varnish trade is brisk. Well-assorted orders are ariving continually from the retail merchants, which tends to show that there is a good general demand throughout the country. Paris green has begun to move more freely, but, owing to the absence of hot, moist weather, the potato bugs have not been as numerous as in some years previous, and, as a result, shipments are not as heavy and frequent as they might be. Shellac, during the past week, has declined in value on account of the ample supplies which have been coming forward at lower prices. Turpentine is reported firmer at the manufacturing point, but as this movement is only thought to be spasmodic local dealers have not altered the price. The recent marked advance has curtailed the local demand to a considerable extent, but as European buyers are purchasing freely, this change in local conditions is not likely to have the effect on the market it otherwise would have. Prices are expected to remain firm for some time to come, as the receipts are considerably lower than in previous years, owing to the difficulty of securing labor to reap the crop.

Canadian Paris Green—No change has occurred in this market. We quote the following: Barrels, 15 1-4c.; arsenic kegs, 15c.; 50 and 100 lb. drums, 16c.; 25 lb. drums, 16 1-2c.; one pound packages, 17c.; half-pound packages, 19c.; one pound tins, 18c. Terms 2 per cent. discount for cash in 30 days or 90 days net.

English Paris Green—Pure English Paris green, petroleum barrels, 15 1-4c.; arsenic kegs, 15 1-2c.; 50 and 100 lb. drums, 16c.; 25 lb. drums, 16 1-2c.; one pound paper boxes, 17c.; one pound tins, 18c.; one-half pound paper boxes, 19c.; one-half pound tins, 20c. Terms, 2 per cent. off thirty days, or ninety days net from date of shipment.

Turpentine—Single barrels, $1.05 per gallon; two to four barrels, $1.04 per gallon; for smaller quantities than barrels, 5c. extra per barrel is charged. Standard gallon is 8.40 lbs. f.o.b. point of shipment, net 30 days.

Linseed Oil—Raw, one to four barrels, 52c.; five to nine barrels, 51c.; boiled, one to four barrels, 55c.; five to nine barrels, 54c. f.o.b. Montreal. Net 30 days.

Ground White Lead — Best brands Government standards, $4.70 to $4.85; No. 1, $4.45 to $4.60; No. 2, $4.20 to $4.35; No. 3, $3.87 1-2 to $3.97 1-2; No. 4, $3.50 to $3.60, all f.o.b. Montreal.

Dry White Zinc—Pure dry in casks, 7c.; in 100 lb. kegs, 7 1-2c.; No. 1 zinc, in casks, 6c.; in 100 lb kegs, 6 1-2c.

White Zinc (ground in oil)—Pure, 25 lb. iron, 7 1-2 to 10c.; No. 1, 6 1-4c.; No. 2, 5 1-4c.

Putty—Pure linseed oil 175 to 185. Bulk in barrels, $1.50; in 25 lb. irons, $1.80; in tins, $1.90; bladdered putty in barrels, $1.75.

Orange Mineral—Casks, 7 1-4c.; 100 lb. kegs, 7 1-2c.; smaller quantities, 8 1-2c.

Red Lead—Genuine red lead in casks, $4.50 in 100 lb. kegs, $4.75; in less quantities at the rate of $5.75 per 100 lbs.; No. 1 red lead, casks, $4.25; kegs, $4.75, and smaller quantities, $5.50.

Shellac Varnish — Pure white in barrels $2.30 to $2.50; pure orange, $2 to $2.20; No. 1 orange, $1.90 to $2.10.

Mixed Paints—$1.20 to $1.40 per gallon.

Castor Oil—8 3-4c. to 9 1-4c. in wholesale lots, and 1-2c. additional for small lots.

Litharge—Ground, in casks, 5c.; in less quantities, 5 3-4c.; flake litharge, casks, $5.50; smaller quantities, $6 per 100 lbs.

Refined Petroleum—Conditions continue unchanged. We quote as follows: American prime white 14 1-2c., American water white 16c.

ONTARIO.

Office of HARDWARE AND METAL,
10 Front street east.
Toronto, June 9, 1905.

PROHIBITIVE prices are now being quoted on turpentine, a jump from $1.05 to $1.25 for five-gallon lots being the fature of the oil market during the past week. Two sets of manipulators are fighting in the south for mastery in an endeavor to corner the market and control all the turpentine available, it being said that quotations may go as high as $1.40 before the market is broken. On the other hand, many think that the prices are at their highest at the present time, and a fall is likely during the coming week. The market in Toronto is bare, and it would probably be impossible to buy ten barrels in Toronto. Dealers refuse to sell in quantities of more than five gallons, and painters are using benzine rather than pay the prohibitive price. Drug people, however, must have some, and are buying in small quantities.

Linseed oil continues very firm at the prices quoted last week. Shellac varnish has declined considerably, being now quoted at $2.60 to $2.80.

Paris green is moving very actively, many dealers not having booked their orders in the Spring and are now stocking up as the demand from buyers is increasing.

Mixed paints are also being bought in large quantities, many dealers having found it necessary to send refilling orders owing to the general activity in building operations.

White Lead—Ex-Toronto, pure white

WHAT COULD THE PEOPLE DO WITHOUT ALUMINUM PAINT

for Steam Pipes, Gas Ranges, etc., and all kinds of Iron and Metal Work? They couldn't do much. This is a great line to carry because there is a clear field. Do you wish the prices?

THE STANDARD PAINT & VARNISH WORKS CO., LIMITED, Windsor, Ont.

"The Tool Holder People"

Armstrong Bros. Tool Company

Manufacturers of Armstrong Patent Lathe and Plan Tools and other machine shop specialties.

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PIERCERS
PLATERS
and JAPANNERS

Nickel plated, fancy, household and kitchen articles; advertising and shop front clocks; articles for export made to order and German hardware bought and shipped on commission.

McCaskill, Dougall & Co.

Manufacturers

RAILWAY, CARRIAGE AND BOAT **VARNISHES.**
HIGH GRADE FURNITURE and HOUSE VARNISHES

MONTREAL.

ABOUT GLUES

What kinds do you handle? Are you and your customers satisfied? Perhaps we can give you a better article at a fairer figure. Our SCOTCH GLUES will be found of exceptional strength, and equal to many glues for which much higher prices are charged. Let us send samples.

GROVE CHEMICAL CO. Ltd, Appley Bridge, Lancashire, Eng.

FOR IMPORT

CHAIN

English Close Link Tested. *Lowest Prices.*

Linseed Oil

In Stock. *Small Lot No. 9 Gold Wire.*

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THIS IS THE HOUSE OF QUALITY

P. D. DODS & CO., Vancouver, Winnipeg, Montreal, Toronto



This is the picture of a good healthy girl using our Varnish Floor Stain.

Varnished Floors make healthy homes.

Will varnish and stain with one application.

Avoid colored varnishes with jim-crack, silly names, and order

The CANADA PAINT COMPANY'S VARNISH FLOOR STAIN

NOTE: Equally good for all woodwork. In handy packages ready for use.

lead, $4.75; No. 1, $4.37 1-2; No. 2 $4; No. 3, $3.62 1-2; No. 4, $3.35 in packages of 25 lbs and upwards; 1-2c. per lb. extra will be charged for 12 1-2 lb packages; genuine dry white lead, in casks, $4.25.

Red Lead—Genuine in casks of 560 lbs., $4.50; ditto, in kegs of 100 lbs., $4.75; No. 1, in casks of 500 lbs., $4 to $4.25; ditto in kegs of 100 lbs., $4.50.

White Zinc—Genuine French V. M., in casks, $6.50 to $7; Lehigh, in casks, $6 to $6.50.

Shingle Stain—In 5 gallon lots 75 to 90c. per gallon.

Paris White—90c. to $1 per 100 lbs.

Whiting—60 to 65c. per 100 lbs; Gilders' whiting, 75c.

Shellac Varnish — Pure orange in barrels, $2.60 to $2.80; white, $2.65 to $2.90 per barrel; No. 1 (orange), $2.25.

Linseed Oil—Our quotations are: Raw, 1 to 4 barrels, 56c.; boiled, 59c.; 5 to 9 bbls., raw, 55c.; boiled, 57c.; Toronto, Hamilton, London, and Guelph, net 30 days. Advance of 2c. for delivery to outside points.

Turpentine—Five-gallon lots, $1.25; 2 to 4 barrels, open; 5 barrels and over, open, f.o.b. point of shipment, net 30 days. For less quantities than barrels, 5c. per gallon extra will be added, and for 5 gallon packages, 50c., and 10 gallon packages 80c. will be charged.

Paris Green—600 lb. barrels, 13 1-4c.; 250 lb kegs 13 1-2c.; 50 lb drums, 14 1-2c.; 1 lb. packets, 15c.

Glues—Broken sheet, in 200 lb. barrels, 5 to 25c. per lb.; cabinet glue, in barrels, 11 1-2 to 12c.; emery glue, in barrels, 15c.; bookbinders' ground, 11 1-2c.; finest American white, 19c.; No. 1 American white, 15c. per lb.

Putty—Ordinary, bladders in barrels. $1.65 to $1.75; pure linseed oil, $2 to $2.10; bulk in barrels, $1.50; pure, $1.95 to $2; 100 lb. kegs 25c. extra.

Plaster Paris—New Brunswick, $2 per barrel.

Liquid Paints—Pure, $1.20 to $1.35 per gallon; No. 1, $1.10 per gallon.

Barn Paints—70c. to 80c.

Bridge Paints—75c. to $1.

Castor Oil—English, in cases, 8 1-2 to 9c. per lb., and 10c. for single tins.

Refined Petroleum — Opening of navigation has brought an increase in business. We quote: Water white, 16c; Canadian prime white, 14½c.; American water white, 16½c. to 18½c. ex warehouse.

Crude Petroleum—A further drop is noted. We quote: Pennsylvania, $1.29; Ohio, 84c.; Somerset, 81c.; Indiana, 88c.; Canadian, $1.27.

Glass—See current quotations at the end of this issue.

WINDOW GLASS—MONTREAL.

With the exception of a condition which leads the most optimistic wholesale dealers to believe that a general scarcity of glass will be experienced before the present season closes, general conditions remain practically unchanged. The arrivals of sizes which are in the most demand are very slow, and as the conditions throughout the country have warranted the retail merchant in demanding immediate shipment on the orders he has booked, the wholesale dealer is compelled to cut into the larger sizes, which results in suffering a small loss on each order. In fact, some of the local wholesale merchants have refused orders for certain sizes, rather than cut up the large sizes. Small shipments are expected to arrival at intervals during the course of the season, but as the Belgian market is already booked till the end of September, it is advisable for any retail merchant who wishes to receive import orders this Fall to place them at once. Wholesale houses are placing their import orders two months earlier this year than in years previous, and this conveys beyond a doubt the seriousness of the conditions. The market has never had such a busy aspect. Local dealers are reporting that sales, up to date, for this year show an increase of twenty-five per cent., which no doubt would have reached the thirty-five mark if the market had been free from the present troubles. Our quotations are as follows: First break, 50 feet, $2.00; second break, $2.10; first break, 100 feet, $3.75; second break, 100 feet, $3.95; third break, 100 feet, $4.50; fourth break, 100 feet, $4.75; fifth break, 100 feet, $5; sixth break, 100 feet, $5.50; seventh break, 100 feet, $6.00; and eighth break, 100 feet, $6.50. Diamond star, first break, 50 feet, $2.30; second break, 50 feet, $2.50; first break, 100 feet, $4.40; second do., $4.80; third do., $5.75; fourth do., $6.50; fifth do., $7.50; sixth do., $8, and seventh do., 9. Double thick, first break, 50 feet, $3.45; second do., $3.75; first break, 100 feet, $6.75; second do., $7.25; third do., $8.75; fourth do., $10; fifth do., $11.50; sixth do., $12.50; seventh do., $14; eighth do., $16.50; ninth do., $18; tenth do., $20; eleventh do., $24, and twelfth do., $28.50.

TO PREPARE BRICK FOR SIGNS.

Fill up the holes with cement and wet the surface. Take fourteen pounds of clean sharp sand, four pounds slaked lime, and four pounds powdered litharge, mix with boiled oil to make a paste. Rub the holes with raw oil and fill in with cement. When hard, give a coat of raw oil, then give a coat of white lead mixed with equal parts raw and boiled oil, with turps and a little driers. Prepare your ground in the usual way.

CANADA PAINT CO., WINNIPEG.

The latest eastern firm to decide to follow Horace Greely's advice is the Canada Paint Co., Limited. Mr. Robert Munro, managing director of the company, was in Winnipeg last week, and he announced that linseed oil mills here have been secured, that a stock of paints, etc., will be carried in Winnipeg, and that manufacturing operations will also be conducted here. It has been found a disadvantage to have to supply the western demand so far from the base of supplies, and the growing trade here renders the step necessary.

CONDENSED OR "WANT" ADVERTISEMENTS.

YEARLY CONTRACT RATES.

100 words each insertion,	1 year		$30 00
" " "	6 months		17 00
" " "	3 months		10 00
50 " "	1 year		17 00
" " "	6 months		10 00
25 " "	1 year		10 00

AGENT OPEN FOR ENGAGEMENT.

A MANUFACTURERS' agent wishes to represent English, American or foreign manufacturers of hardware specialties; references exchanged. Box 250 HARDWARE AND METAL, Toronto. (23)

BUSINESS CHANCES.

IF you wish to buy or sell a business anywhere in Western Canada, it will pay you to communicate with us. We have some good legitimate propositions on our list; handle nothing else. Address The Business Brokers, 611 McIntyre Block, Winnipeg, Man. (tf)

MANUFACTURERS' AGENT WANTED.

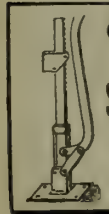
A LARGE firm of bedstead manufacturers in Birmingham, Eng., are open to engage an agent in Canada for the sale of their goods. Address Box 254, HARDWARE AND METAL, Toronto. (tf)

AGENCY WANTED.

AGENT with established connection is open to represent Ontario manufacturer or jobber in the east; highest references. Box R, HARDWARE AND METAL, Montreal. (23)

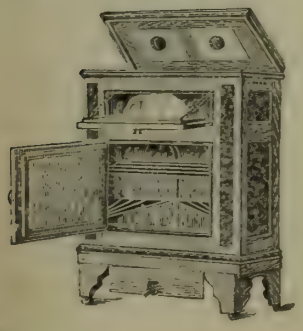
HARDWARE TRAVELER WANTED.

YOUNG man, having had experience in retail business preferred; knowledge of the goods more necessary than experience on the road. Address, stating age and where last employed to Box 50, HARDWARE AND METAL, Montreal. (23)



COVERT MFG. CO.
Troy, N.Y.
Steel Carriage and Wagon Jacks
Harness Snaps, Chain, Rope and Web Goods, etc.
SOLD BY ALL LEADING JOBBERS.

REFRIGERATORS



Up-to-date dealers buy our lines because our refrigerators are unequalled for their finish, construction and general appearance. Write for Catalogue.

C. P. FABIEN
Refrigerator Manufacturer
MONTREAL, - - CANADA

IRONSIDE FOR IRON

OUR SPECIALTIES ARE BRITISH AND FOREIGN **IRON, STEEL, METALS, BARS, PLATES, SHEETS, BOLTS and NUTS, TIN PLATES, Etc.**

Sole Licensees for **PAGE'S PATENT WIRE STRETCHER,** and we are willing to sell the right of manufacture in Canada on a Royalty basis.

IRONSIDE'S PATENT WIRE CUTTERS, guaranteed to cut any wire

We publish a "Canadian Metal Price List" monthly. Quotations in Dollars and Cents. (C.I.F.) We will send this, and our "Weekly Market Report" on receipt of address.

IRONSIDE, SON & CO., 16 Water Lane Gt. Tower St., E. C **LONDON, ENG**



A QUESTION OF WORTH

The Tarbox Cloth has proven itself to be what we first said it was—**THE BEST.** But there are lots of women who have yet to learn of its excellence. There is profit in your acquainting them with **THE TARBOX CLOTH.**

Your Jobber Sells Them.

TARBOX BROS., Toronto

THE LEADERS



STYLE "A"



STYLE "E"

Style "A" with Double Reversible Steel Bow Lever, Patented Cream Breakers.

Style "E" with Hand and Foot combination drive and spring attachment, producing an easy and elastic motion.

The Pittman is quickly detachable from churn.

Both styles are fitted with our improved Steel Ball Bearings and mounted on Rigid Angle Steel Stands.

THE DOWSWELL MANUFACTURING CO., LIMITED
HAMILTON, ONT.

THE EVOLUTION OF STEEL.

POWDERED charcoal dissolves as fast as it falls when dropped on seething iron in a crucible and forms steel, the most useful alloy known to art. When the proportion of carbon is about one-sixtieth, the steel has double the strength of the iron it was made from; as the carbon is varied in quantity, the steel takes on just the hardness, toughness, or elasticity desired. So highly did our forefathers prize steel for their weapons and tools, that they produced it at an outlay tenfold that required for iron. Of course, at such a price, the field for steel was strictly limited, much as the demand for silver is now. But less that fifty years ago, or, to be exact, in August, 1856, Bessemer announced his famous process for making cheap steel, and the industrial world entered upon a new era. His plan was simplicity itself. Cast iron contains much more carbon than does steel, and he burned away this redundancy with a powerful blast of air. In practice, he found it best to burn out pretty much all the carbon, and then add to the molten metal a measured quantity of carbon, which would give him just the alloy he wished. This accomplished, at the end of much brave and patient toil, steel fell to a price so low that it soon began to take the place of iron for railroad tracks, for ships, boilers, engines, machinery of all kinds, of a new durability, and made feasible an increase of working speed all along the line. Within the past twenty years, steel has been adopted for office buildings, hotels, bridges, elevators and the like, with the effect of almost completely revolutionizing the arts of design and construction. And no wonder, when we see that to-day at Pittsburg No. 1 Foundry Iron brings a price only a fraction less than steel billets.

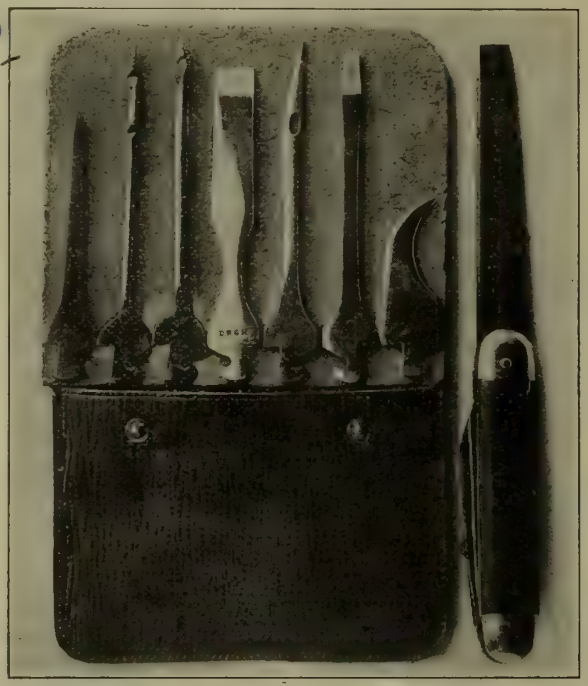
English iron ores usually contain phosphorus enough to render their metal, unless specially treated, so brittle as to be of small value. This difficulty harassed the English iron-masters for more than twenty years after a remedy had been suggested. Within a month of Bessemer's announcement of his process, Dr. R. H. Collyer paid a visit to the inventor's furnace, proposing that dry lime in powder be added to the metal so as to form a phosphate which would pass away with the slag. It was not until 1878 that this idea was carried into effect by Sidney Gilchrist Thomas, a young fellow of twenty-seven, with the effect of immensely increasing the value of irons and steels produced from ores carrying phosphorus.

All the gain in tenacity secured when steel takes the place of iron is repeated when steel, in its turn, is alloyed with nickel. If this metal were cheap, we should at once have thinner boilers, bigger steamships, higher towers, bolder bridge-spans, while every factory wheel would turn one-half quicker than to-day. Like many another group of alloys, nickel steels change their behavior in a remarkable fashion as the percentage of their ingredients is varied. With fifteen per cent. of nickel the compound is extremely sensitive to changes of temperature, expanding much with a single degree of added heat. But this characteristic vanishes as the proportion of nickel is increased. Mr. C. E. Guillaume, of the International Bureau of Standards, at Paris, has united 36.2 per cent. nickel with 63.8 of steel to form an alloy which he calls "invar." When warmed one degree of the Centigrade scale, this alloy expands only one-millionth part, that is, just one-eleventh as much as ordinary steel. "Invar," accordingly, is adopted for standards of measurement, for surveying instruments, and is likely to be in extensive demand for time-pieces, telescopes, cameras and all other mechanism in which precision is of prime importance.

Indifference to heat in another alloy of steel was long ago noticed by Mr. Robert Mushet, of Sheffield. He found that when he added tungsten to steel he had a material of amazing toughness, which withstood temperatures that destroyed the temper of other steels, and indeed, melted some of them like wax. From his experiments have sprung the high-speed steels which remove a thicker slice of metal in a lathe than does common steel, and at a pace which would readily melt, through friction, an ordinary tool.

Mr. R. A. Hadfield, also of Sheffield, has conferred upon industry another steel just as valuable. By using manganese in his melting pot, he produces an alloy so tough that it cannot be shaped except by an emery wheel. It resists abrasion at least four times as well as does ordinary steel, so that it is built into ore stamps, dredge knuckles, railroad switches, and such like. Yet this wonderful compound has a drawback which seriously limits its usefulness; so great is its malleability that under severe pressure it flattens down like dough, although without rupture at any point. Some fine morning, however, we may wake up to find that at Sheffield or Pittsburg, some ingenious worker has succeeded in turning out a manganese steel not only tough in fibre, but rigid as well. The wonderful era of invention which the world has seen during the past half century has made it all the more easy for as startling innovations in the days to come as we have experiences in the years gone by.

RETURNED
JUN 13 1905
Owner
Book 36
e 44



Ideal Tool Set in Leather Case.

TOOL SET AND CASE.

The Ideal Tool Set in leather case, shown in the accompanying cut, is a handy and serviceable novelty for sportsmen on hunting and fishing excursions, and should meet with a large sale during the coming Summer and Fall. Rice Lewis & Sons, Toronto, have it listed in their sporting goods catalogue.

SEALED TENDERS addressed to the undersigned, and endorsed "Tender for Postal Station "F" Toronto, Ont.," will be received at this office until Tuesday, June 20, 1905, inclusively, for the construction of Postal Station "F" Toronto, Ont.

Plans and specification can be seen and forms of tender obtained at this department and on application to H. E. Hamilton, Esq., Resident Engineer, Examining Warehouse, Toronto, Ont.

Persons tendering are notified that tenders will not be considered unless made on the printed form supplied, and signed with their actual signatures.

Each tender must be accompanied by an accepted cheque on a chartered bank, made payable to the order of the Honourable the Minister of Public Works, equal to ten per cent. (10 p.c.) of the amount of the tender, which will be forfeited if the party tendering decline to enter into a contract when called upon to do so, or if he fail to complete the work contracted for. If the tender be not accepted the cheque will be returned.

The Department does not bind itself to accept the lowest or any tender.

By order,
FRED. GELINAS,
Secretary.

Department of Public Works,
Ottawa, May 27, 1905.

Newspapers inserting this advertisement without authority from the Department, will not be paid for it.
(24)

SEALED TENDERS addressed to the undersigned, and endorsed "Tender for Post office at Vancouver, B. C.," will be received at this office until Friday, June 23, 1905, inclusively, for the erection of a Post Office building at Vancouver, B. C., according to plans and specification to be seen at the Department of Public Works, Ottawa, Ont., and at the Vancouver Armoury, Vancouver, B. C.

Tenders will not be considered unless made on the printed form supplied and signed with the actual signatures of tenderers.

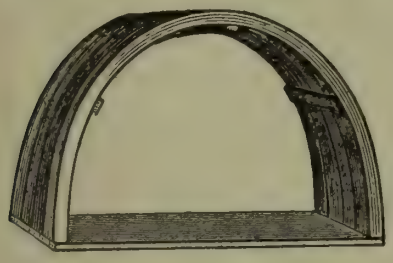
An accepted cheque on a chartered bank, payable to the order of the Honourable the Minister of Public Works, equal to ten per cent (10 p. c.) of the amount of the tender, must accompany each tender. This cheque will be forfeited if the party tenderingdecline the contract or fail to complete the work contracted for, and will be returned in case of non-acceptance of tender.

The Department does not bind itself to accept the lowest or any tender.

By Order,
FRED. GELINAS
Secretary.

Department of Public Works,
Ottawa, May 16, 1905.

Newspapers inserting this advertisement without authority from the Department, will not be paid for it.
(23)



The Sarnia Hub, Spoke and Bent Goods Mfg. Co.

Sarnia, Ontario

We are prepared to fill any orders for

HEAVY WAGON, SLEIGH, BUGGY, AND CUTTER STOCK

We make a specialty of heavy stock and can fill orders promptly. Made from the best of oak and hickory as we carry a large stock of lumber and can make any sizes that may be required. We make it a point to fill orders promptly.

If you are in need of anything in our line we will be pleased to hear from you and we will give it our prompt attention.

J. S. LOUGHEAD & SON, Sarnia, Ont.

LAMPS LANTERNS

STANDARD LEADERS

Banner Cold Blast
Climax Safety Tubular
Shelby Incandescent
Downward Incandescent

For sale by all prominent dealers

Manufactured by

ONTARIO LANTERN & LAMP CO., Limited
HAMILTON, Ontario

Why don't you try



Galvanized Sheets

Once bought, always bought by those who know value for money

MAKERS **J. SUMMERS & SONS, Limited.**
AGENT **F. HANKIN, Montreal.**

ASK YOUR JOBBER FOR

GILBERTSON'S

COMET

Brand Galvanized Sheets

Of high quality, but LOW in price—for a guaranteed sheet.

Makers: W. GILBERTSON & CO., Limited
Pontardawe, South Wales.

A Good Line

BEAVER POST-HOLE DIGGER

Will please your customer. A pleased customer is an asset to any business.

No wood to rot, check or break. Special discounts to the trade.

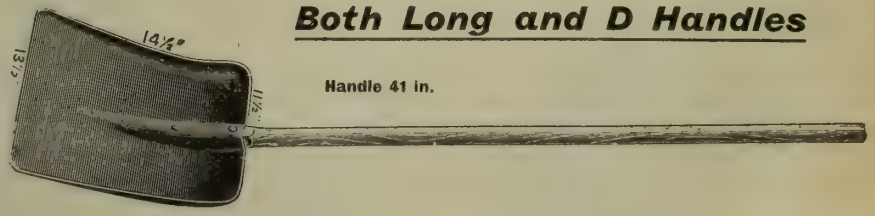
CANADA FOUNDRY COMPANY, LIMITED

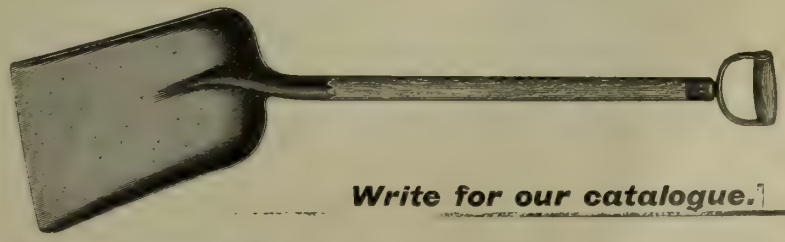
HEAD OFFICE AND WORKS: TORONTO, ONT.

District Offices: Montreal, Halifax, Ottawa, Winnipeg, Calgary, Vancouver, Rossland.

SNOW SHOVELS - FURNACE SCOOPS

Both Long and D Handles





Write for our catalogue.

F. E. KOHLER & CO., - Canton, O., U.S.A.

SOL-A-RINE

The Great Polish

For all planished metals, Liquid Form, Screw Top Tins. No stock complete without it. What the trade say: "Sells better than any other."

Send for Circular

H. F. FALKINER,
60 George St., TORONTO

OAKEY'S The original and only Genuine Preparation for Cleaning Cutlery. 6d. and 1s. Canisters

'WELLINGTON' KNIFE POLISH

JOHN OAKEY & SONS, LIMITED

MANUFACTURERS OF

Emery, Black Lead, Emery, Glass and Flint Cloths and Papers, etc.

Wellington Mills, London, England

Agent:

JOHN FORMAN, 644 Craig Street
MONTREAL.

Can You Beat

YORK

Metal Polish

for bicycles, fire-arms, door plates, candlesticks, taps, nickelware, etc.? Other grocers cannot. Better get a sample, free.

ANGLO-CANADIAN SUPPLY CO.
3 Wellington St. E., TORONTO

Cooper's Improved Patent One-Piece Stovepipe Elbows



The Heaviest and Best Elbow on the market. Measures 23 inches long at the back. Send in for sample dozen. Polished or Common.

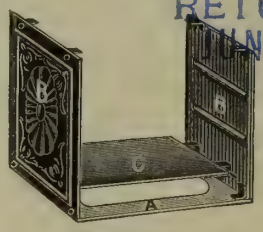
E. T. WRIGHT & CO., Manufacturers and Sole Patentees,
Hamilton and Montreal

We are prosecuting all infringements on our patent.

STOVES AND TINWARE.

KNOCKED DOWN OVENS.

THE four cuts shown herewith illustrate the "Model" knocked down ovens manufactured by the McClary Mfg. Co., London, the oven being capable of being shipped in a remarkably small space, and only eight short bolts being required to put this oven together. The increasing use of gas and oil stoves to avoid the oppressive hot weather, and the adoption of modern labor-saving appliances in the kitchen, has given an ever increasing demand for ovens which can be used without having a roasting fire. The type illustrated has this advantage, together with the additional one of being handy for moving to Summer cottages or on camping tours, occupying very little space when knocked



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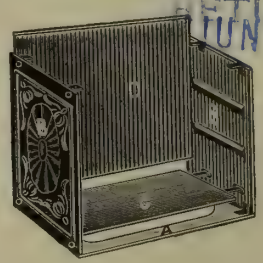
down and not in use. The line has proven a popular seller, and every hardware merchant should carry an assortment of the knocked down type as well as the other classes of goods in this line.

ADVERTISING STOVES.

When you advertise a stove tell something about it. If the oven is larger than the average say so, it it has a grate for hard or soft coal mention that, if it is equipped with an oven door thermometer, put that in. The people want to know. It does little good to tell them that you have the best stove in town. They may know that you are a truthful man, but they may think you are mistaken.

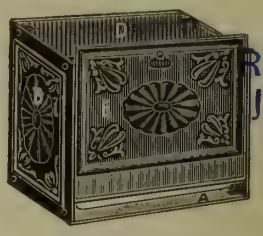
A SMOKELESS STOVE.

A new type of stove, the object of which is the abolition of smoke, no matter what fuel is employed, has been demonstrated in London. The invention comprises a screen of tubular fire bricks,



RETURNED JUN 13 1905

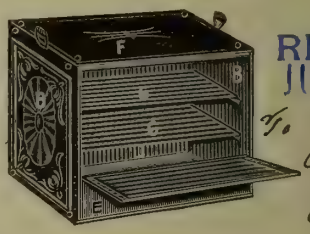
made of special material built up in the furnace in such a position that all the products of the fire pass through the screen. The latter quickly becomes incandescent and flashes the gases as they pass through, thus preventing the formation of carbon. By the aid of this device, says the Scientific American, coal of the worst description can be burnt in the ordinary boiler with practically no smoke, and with a considerable saving in cost. For this purpose of demonstration, cheap, damp, coal dust was burned. The only result was a light gray cloud at the top of the chimney stack, which cleared away in a few seconds.



RETURNED JUN 13 1905

SHOW GOODS THOROUGHLY.

You must show the trade why your range is better than your competitor's. To nine people out of ten all stoves look alike except for the trimmings. Show the customer that your stove has a larger firebox or a bigger oven or a better arrangement of drafts, or a better top, or whatever the advantage may be. He will not find these things out for himself—unless he buys the stove, and



RETURNED JUN 13 1905

he won't do that unless you "show him" first.

STOVE PARAGRAPHS.

Hand sprayers to spread the paris green and water are among the comparatively modern inventions. They beat the old watering pot a long ways and should be on sale everywhere that the poison is.

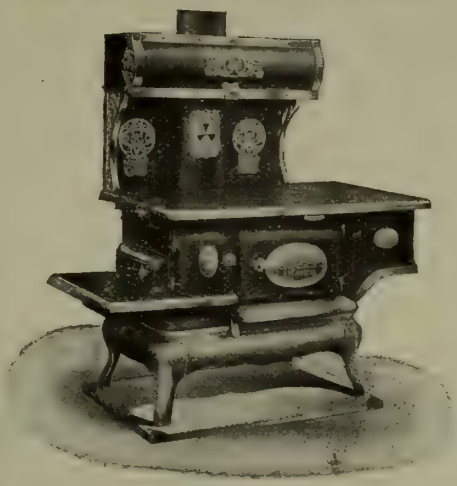
Is the tinshop keeping up its end of the profits these days? Eave trough and gutter pipe repairing will help—if you can get the work.

Keep your eye on the man who is going to build a store or a house this Summer. Sell him a furnace or a new outfit of stoves.

Eave troughs and conductor pipes need fixing now. Advertise this line of goods and see if results are not forthcoming.

The James Smart Mfg. Co., Brockville, have been awarded the contract for warming and ventilating the new Methodist church at Leamington, Ont., and will use two No. 30 "Kelsey" warm air generators for the purpose.

What the People Think



of

THE EMPIRE QUEEN RANGE

Public opinion is something.

Here is a specimen of what we often receive from users of our range :

Thornbury, Jan. 5th, 1905

THE CANADIAN HEATING & VENTILATING CO., Limited

GENTLEMEN:—This is to certify that the stove I purchased from you last Fall, manufactured in Owen Sound, has given us the best of results. It's an excellent working stove.

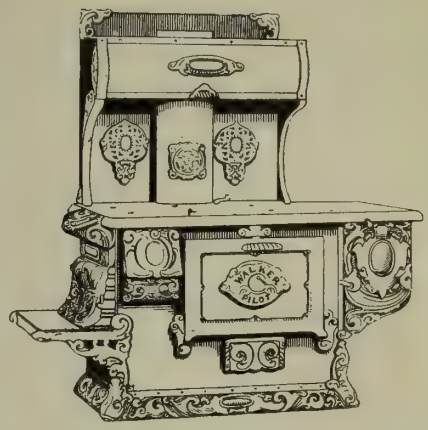
Yours truly,
T. McKENNY, Postmaster, Thornbury.

WRITE FOR BOOKLET

The Canadian Heating & Ventilating Co.
OWEN SOUND, ONTARIO. Limited

THE

Walker Pilot Steel Range



Nearly every stove catalogue contains this assertion, "No range has what is called a draft, the chimney provides the draft." But when the range is hitched to the chimney, consider the importance of a wide, evenly distributed draft along the entire length of the grate, as embodied in the Walker "PILOT," and affording perfect, even combustion, and then look at the small retarded draft under the fire door at the end of the grate as seen in so many ranges. The difference is obvious—Economy, Perfect Regulation and Quick Results.

WRITE FOR PARTICULARS

THE WALKER STEEL RANGE CO., LIMITED
GRIMSBY, Ont.



The heat-diffusing flue of th Imperial Oxford Range has made i the best baking and roasting range o the market. We have explained th action of this flue in our advertisement which are appearing in all the dail papers of Canada. Range buyers kno that they cannot get this flue in an range but the

Imperial Oxford Range

They know they cannot get as goo cooking and baking without it. T satisfy these people you must sell the an Imperial Oxford Range. Doing s will be an easy, pleasant and profitabl transaction for you.

The Gurney Foundry Co., Limite
Toronto Montreal Winnipeg Vancouver
The Gurney-Massey Co., Limited, Montreal,
The Gurney Standard Metal Co., Limited, Calgary, Alt

BUILDING AND CONSTRUCTION

FIREPROOF GOODS IN DEMAND.

FIREPROOF goods in connection with the building trade are coming into more prominence, and manufacturers of these lines are at present so busy that some of them, especially the smaller ones, are working night and day. On every hand extensive builders are seriously contemplating durability, and as a result, roofs, doors, window frames and sashes, gears, and other furnishings, guaranteed to be absolutely fireproof, have a good demand and are being used where wood and plain glass were used heretofore. Mr. Barwick, manager for George W. Reed & Co., Montreal, when interviewed by a representative of Hardware aad Metal, stated that the demand for their fireproof windows has never been equalled. They have also an excellent demand for copper cornices, which have an advantage over the heavy stone cornice on account of the weight. Mr. Barwick predicts a good business in the building trade for some time to come.

The following contracts have been secured by the George W. Reed Co.: Roofing, corrugated siding, and complete windows on the new elevators which are being erected by the G.T.R. at Montreal; roofing and metal work on the new building owned and erected by the Dominion Oilcloth Co., Montreal; skylights, windows and roofing on the new Maternity Hospital, Montreal; galvanized iron piping in the new buildings which are being erected by the C.P.R. in Winnipeg; corrugated galvanized iron throughout the buildings of the Canadian Copper Co., at Copper Cliff, Ont., and the roofing and fireproofing of the two new power houses which are being erected by the Montreal Street Railway Co.

TORONTO'S BUILDING RECORD.

Toronto is experiencing a remarkable stimulation in the building industry, and up to the present time the amount of money spent in new buildings is double the amount spent last year during the same period. Following are the figures as to the value of buildings for which permits were issued by Commissioner McCallum-

	1904.	1905
During May	$554,956	$1,104,154
Jan. 1 to May 31.....	1,525,063	3,191,112
Permits during May.	172	311
Jan. 1 to May 31....	706	914
Buildings erected from Jan. 1 to May 31....	526	1,078

BUILDING NOTES.

F. Mongeon is erecting a $3,500 building at Quebec.

The Y.M.C.A. will erect a new building in Collingwood.

Mr. Mortimer Davis is to build a $50,000 residence at Montreal.

An $11,000 factory is to be erected by the Alvinston Canning Co.

A. C. Havill, Hamilton, is erecting two brick houses to cost $3,000.

Fred Murray and E. McClung are to build a business block at Cayuga.

The Roman Catholics of Port Arthur will erect a new church building.

Thomas Lovejoy is to build a brick store at Hamilton to cost $1,800.

H. E. Isard & Co., Wingham, are erecting an addition to their store.

A business block is to be erected at Arcola, Man., by the Merchants Bank.

Mayor Sharpe is arranging to build another apartment block at Winnipeg.

The Merchants' Rubber Co., Berlin, will erect an addition to their factory.

Dr. R. Mackenzie has commenced the erection of a fine residence at Winnipeg.

Messrs. Turner & McMichael will erect a 100-barrel flour mill at Melfort, Sask.

The Imperial Oil Co. will erect a storage warehouse, 60x20 feet, at Fernie, B.C.

The Manitoba Hardware Co., Winnipeg, will erect a factory at Reston, Man.

The Commonwealth Trading Co. are building a large warehouse at Warwick, Sask.

Work has been commenced on the construction of the new John M. King School at Winnipeg.

H. M. Hillman is inviting tenders for the erection of a two-storey solid brick building at Winnipeg.

The new building to be erected by the Montreal Light, Heat and Power Co. is expected to cost $10,000.

P. E. Shantz, Berlin, has purchased a site and will erect a six or seven-storey building in "Busy Berlin."

Plans have been prepared by the Montreal Steel Works Co. for the erection of a building to cost $25,000.

J. O'Brien, Revelstoke, will erect a large brewery and malting plant at Vernon, B.C., at a cost of about $50,000.

The R. McKie Buggy Co., Plattsville, will erect a reinforced concrete building in Hamilton, at a cost of $10,000.

S. B. Ritchie has received the contract for erecting an addition to St. Peter's Church, Winnipeg, at a cost of about $7,000.

Permits for buildings have been issued at Toronto Junction up to June 1 amounting to $133,500, the number of buildings being 85.

The Owen Sound Portland Cement Co. have been awarded the contract for supplying to the City of Winnipeg about 30,000 barrels of cement.

The Taylor Pattison Mill Co. have been incorporated at Victoria, B.C., with a capital of $50,000, to manufacture doors, sashes, furniture, etc.

A contract has been let by the Ogilvie Milling Co. to a Fort William firm for one million feet of lumber to be used in the construction of the new plant.

Work has commenced on the new $100,000 factory which is being erected by the Walter M. Lowney Co. on William street, Montreal. The factory is to be six storeys in height.

A music hall, costing $50,000, is to be erected at the rear of the Windsor Hotel and facing Cypress street, Montreal. Mr. M. Rodden, of J. J. Browne & Son, is the architect, and he expects to have the new building completed by September 15.

The Ontario Government have appropriated $465,000, to be expended on necessary buildings in connection with the University of Toronto, including a new General Hospital, a physics building, a convocation hall and a museum for the science building, etc.

It is now possible for three men, working with hand machinery, to make 3,000 cement bricks a day. A recently-invented machine, employing five men besides those who mix the cement, will, its inventor asserts, make 6,000 bricks an hour. A big company is forming to place the machine on the market.

Messrs. F. L. Wanklyn, J. P. Dawes and Henry Joseph have been appointed a committee of the Windsor Hotel Co., of Montreal, to visit the United States and inspect all the latest and most modern structures of the kind in that country. This move has been taken in view of the early construction of the annex to the present building.

The report of the building inspector for Montreal shows that building operations for the month of May amounted to $1,062,348. The value of new buildings put up was $963,662, as compared with $664,395 for the same month last year. Permits were given for 156 houses, containing 257 dwellings, 4 stores, 1 warehouse, 6 factories, 1 school and 1 apartment house.

MONTREAL BUILDING PERMITS.

O. Desjardins, dwellings, 300 Harbour street, $4,000.

F. Lalonde, dwelling, 290 to 292 Visitation street, $1,700.

C. Dulac, dwellings, Gauthier street, Papineau ward, $2,200.

E. Ducette, dwellings, Dumont street, Papineau ward, $1,800.

D. Leduc, dwellings, Labelle street, St. Denis ward, $1,500.

L. Lebruir, dwellings, Dufferin street, St. Denis ward, $2,500.

V. Horrkel, dwellings, Ontario street, Hochelaga ward, $2,500.

H. Labelle, alterations to dwellings, 887 Rivard street, $1,800.

M. Desjardins, dwellings, St. Hubert street, St. Denis ward, $1,400.

J. Beaudoin, dwellings, St. Timothee street, St. James ward, $1,800.

P. Levesque, dwellings, Frontenac street, St. Mary's ward, $1,500.

Hampden Court Co., Limited, dwellings. 355 Mountain street, $122,000.

L. Pigeon, alterations to dwellings, 1221 to 1223 Demontigny street, $2,000.

Les R. R. S. S. Grises, alterations to warehouse, 35 Commons street, $3,000.

"DOMINION BRAND"
TARRED FELT
(THE OLD RELIABLE QUICK SELLER)

ROOFING PITCH
COAL - TAR

WHEN YOUR TRADE DEMANDS **THE BEST** ROOFING MATERIALS

CONSULT THE WELL-KNOWN MANUFACTURERS

LOCKERBY & McCOMB, 65 Shannon St., Montreal

ATKINS HIGH-GRADE CROSS-CUT SAWS ARE SUPERIOR TO ALL OTHERS IN MATERIAL, TEMPER, WORKMANSHIP, FINISH AND CUTTING QUALITIES.

OUR VICTOR, TUTTLE TOOTH AND SEGMENT GROUND SAWS ARE THE FAVORITES IN THE CAMPS



E. C. ATKINS & CO.,
INCORPORATED
Factories and Home Office : INDIANAPOLIS, IND., U.S.A.
CANADIAN BRANCH : 56 King St. E ,Toronto, Canada.

LEADING MANUFACTURERS OF HIGH-GRADE, CROSS-CUT, HAND, BAND CIRCULAR, HACK, BACK, WOOD AND SMALL SAWS OF ALL KINDS

Write for Catalogue and Prices.



Stir Up! Stir Up!

If Your Sales of

Gurney Cylinder Locks

are not big, look to yourself, not the locks. You have a first-class article to work on, a "Made-in-Canada," thoroughly-guaranteed Lock. The price of ***GURNEY CYLINDER*** Locks, too, will stand comparison.

THE GURNEY, TILDEN CO., Limited
HAMILTON

BRANCHES:
Winnipeg—Tilden, Gurney & Co., Limited
Vancouver—The Gurney, Tilden Co., Limited

AGENCIES
Montreal—Nicoll & Barr, 85 St. Peter St.
St. John—Nicoll & Barr, 38 Dock St.

Estate F. H. Beaudry, alterations to wellings, 517 Dorchester street, $3,000.
Canadian Rubber Co., alterations to actory, corner of Notre Dame street nd Papineau square, $9,000.

TORONTO BUILDING PERMITS.

John Moffatt, dwelling, Birtle avenue, 2,100.
F. B. Ward, dwelling, Concord avenue, 2,500.
A. J. Sinclair, dwelling, Essex street, 1,500.
Mary Sewell, dwelling, O'Connell avenue, $1,100.
John Bell, dwelling, Humberside avenue, $2,000.
Samuel Grier, three dwellings, Myrtle venue, $1,500.
Robinson & Co., dwelling, Leslie treet, $1,250.
John Gilchrist, dwelling, Palmerston venue, $5,000.
Darling & Pearson dwelling, Maynard venue, $5,500.
J. Billings, jr., residence, Balmoral venue, $5,000.
John H. Harper, dwelling, Withrow venue. $1,300.
G. A. Blackstock, dwelling, Hazelton venue, $3,000.
A. E. Booth, four dwellings, Gibson venue, $6,000.
John Deavitt, dwelling, Palmerston venue, $4,500.
James McBean, dwelling, Gladstone venue, $2,500.
S. Armour, one pair dwellings, Bearice street, $5,000.
Redemptorist Fathers, church, Mcaul street, $90,000.
William J. Robson, dwelling, Gladtone avenue, $1,000.
Mr. Campbell, one pair dwellings, live avenue, $2,800.
John Drummer, one pair dwellings, uron street, $8,000.
John R. McDonald, residences, Symington avenue, $4,000.
Joseph Babister, two pair dwellings, undas street, $6,000.
J. Roberts, one pair dwellings, Armtrong avenue, $2,500.
St. James' Cemetery, residence, Paraament street, $4,500.
William H. McGill, dwelling, 143 St. atrick street, $2,000.
R. H. Smith, one pair dwellings, usholme road, $3,600.
Donald McMillan, one pair dwellings, rawford street, $5,000.
James Fox, two dwellings, 518 and 20 Pape avenue. $3,400.
Thomas R. Whitesides, dwelling, rooklyn avenue, $1,600
G. H. Bowen, store and dwelling, 989 loor street west, $4,500.
Dr. W. H. Walton-Ball, dwelling, almerston avenue, $4,500.
Reuben Norton, two dwellings, 92 and 4 Hogarth avenue, $1,200.
Roman Stone Co., Limited, factory, arlborough avenue, $3,500.
Alexander MacLeod, one pair dwellngs, Hepbourne street, $4,000.
William F. Medcalf, one pair dwellings, 1 and 83 Bismarck avenue, $6,000.
Parliament street Baptist Church and unday school, Eastern avenue, $2,000.
K. C. Sheppard & Co., residence, corer Walmer road and Dupont street, $2,-00.
J. A. Thompson, two stores and wellings, 447 and 449 Dovercourt road, 4,000.
A. A. Barthelmes, one pair dwellings, orner Brunswick avenue and Wells treet, $8,000.

The Hanover Portland Cement Co., Limited
HANOVER, ONTARIO
Manufacturers of the celebrated **"Saugeen Brand"** OF PORTLAND CEMENT.
Prices on application.

"THE EMLYN" SAW BENCH
Made in 6 sizes. Best value obtainable. Specially designed for export With or without "Emlyn" Patent Guard. Sole maker—
CHARLES D. PHILLIPS,
Cables— "Machinery," Newport.
Emlyn Engineering Works NEWPORT, MON., ENGLAND

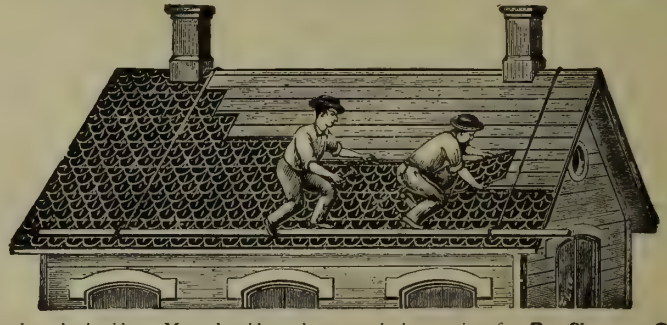
The Best Door Closer is . . .
NEWMAN'S INVINCIBLE FLOOR SPRING
Will close a door silently against any pressure of wind. Has many working advantages over the ordinary spring, and has twice the wear. In use throughout Great Britain and the Colonies. Gives perfect satisfaction. Made only by
W. NEWMAN & SONS,
Hospital St., - - BIRMINGHAM

USE
"HERCULES" BRAND
PORTLAND CEMENT
Manufactured by
THE GREY & BRUCE PORTLAND CEMENT CO.
OWEN SOUND
J. McLAUCHLAN, President.

A PERMANENT and Handsome Roof.

Arrow Brand Asphalt Ready Roofing
Will bring you profitable trade and satisfied customers. Comes in rolls ready to lay, all ready covered with gravel. Requires no experience to lay, and lasts for years without further attention.
A. C. JENKING & CO, Sole Agents,
Room 215 Coristine Building, - MONTREAL.
Sole agents being appointed in each district. Write to-day.

O-SO-EZY
Gives Life and Durability to Hardwood Floors (new or old).
PRICE—IN BBL. LOTS $1 00 PER GAL. SINGLE GALS., $1.25.
DEALERS SELL TRY IT. For further particulars write
O-So-Ezy Mfg. Co., Limited. 205 St. James St, Montreal

PEDLAR'S STEEL SIDING AND SHINGLES
At $2.00 and $2.55 per 100 Square Feet.

Painted red on both sides. Most durable and economical covering for ***Roofing or Siding for Residences, Houses, Barns, Elevators, Stores, Churches, Poultry Houses, Cribs, etc.*** Easier to lay and will last longer than any other covering. Cheaper than wood shingles or slate. No experience necessary. A hammer and snips are the only tools required. It is semi-hardened, high grade steel. ***Brick or Stone Siding at $2.00 per 100 Square Feet. Pedlar's Patent Steel Shingles at $2.55 per 100 Square Feet.*** Also ***Corrugated Iron, Painted or Galvanized,*** in sheets 96 inches long. ***Beaded and Embossed Ceilings. V Crimped Roofing.*** 2,000 designs of Roofing, Siding and Ceilings in all grades. Thousands of buildings throughout the Dominion covered with our Sheet Metal Goods, making them
Fire, Water and Lightning Proof.
Send in your order for as many squares (10 x 10 feet) as you require to cover your new or old building. The very best roofing for this climate. We can supply ***Eave Trough, all sizes, Corrugated or Plain Round, Conductor Pipes, Shoes, Elbows, Spikes, Tubes.***
All goods shipped day after order is received. We are the largest concern of the kind under the British flag. Established 1861. Capital invested $150,000.00.
THE PEDLAR PEOPLE, OSHAWA, ONTARIO, CANADA.

MONTREAL, QUE.	OTTAWA	TORONTO	CALGARY, ALTA.	VANCOUVER, B.C.
767 Craig St.	423 Sussex St.	50 Yonge St.	201 7th Ave. E.	615 Pender St.

WRITE YOUR NEAREST OFFICE.

STEEL TROUGHS



Hardware Dealers

will find our Hog and Water Troughs well worth handling. They are the result of 5 years' experimenting, and we now claim to have the best proposition in hog, whey and frost-proof troughs on the market. Being manufactured of specially imported Stamped Heavy Steel, they are practically indestructible. Our terms to dealers are very liberal, and we give specific territory besides advertising and literature. Let us hear from you as territory is going fast.

THE STEEL TROUGH & MACHINE CO., - TWEED, ONT.



A Popular, Profitable and Seasonable Line to Handle.

Dennis' Flexible Steel Wire Door Mats

DENNIS WIRE AND IRON CO.

Send for Catalogue. LONDON, ONT

WORK AND PRICES RIGHT **GALVANIZING** ONT. WIND ENGINE & PUMP CO. TORONTO, ONT. LIMITED.

NOBODY

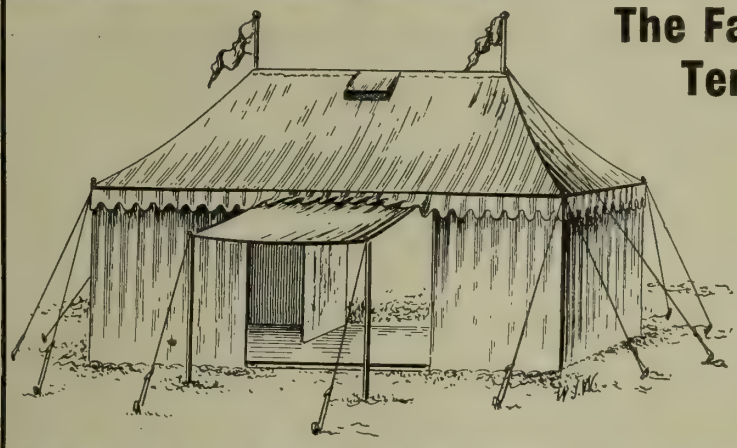
would use the old wooden sifter if they knew there was a sifter as good and as cheap as the

METALLIC ASH-SIFTER

Are you going to tell them, and make the sales, or let some other dealer get ahead of you? We will supply you with prices and information concerning the **Sifter**, the **Bale**, and the **Metal Cover**. Write to-day.

C. M. CUTTS & CO., Sole Makers, **Toronto Junction, Ont.**

RETURNED MAY 16 1906 to owner cut Book to page 53 W.B.



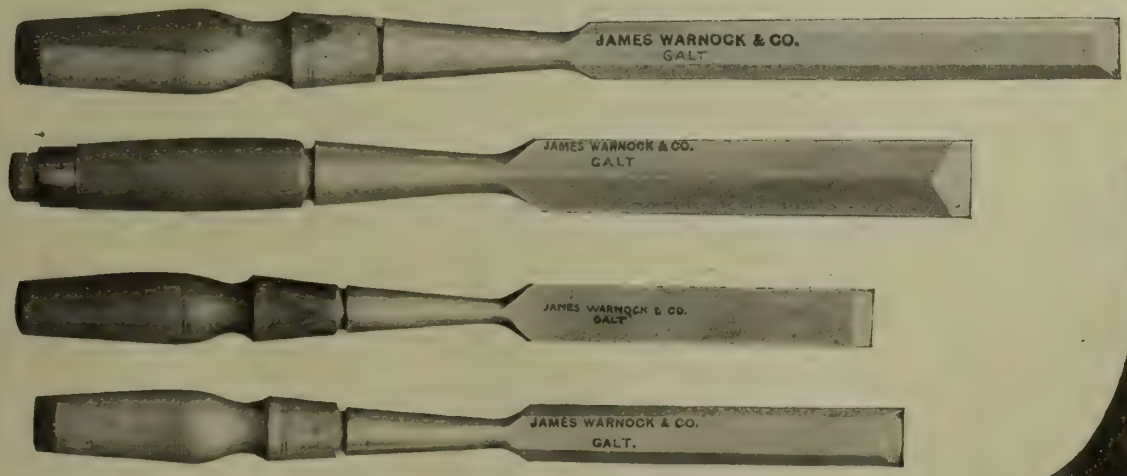
The Family Tent

If you are in need of a tent, it would be worth your while to tell us what kind and size you need, and get our prices. We make every kind and size.

WM. BARTLETT & SON, 16 Adelaide St. West, *TORONTO.*

Warnock Tools

BEST IN THE WORLD





Jas. Warnock & Co., Galt, Ont.

DEPARTMENT OF ADVERTISING SUGGESTION AND CRITICISM

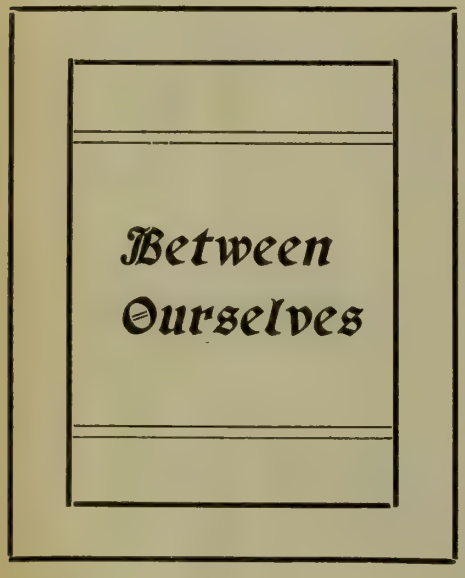
Edited by Our Ad. Expert, TORONTO.

NOTE—Herein are discussed the principles and practice of advertising. Subscribers are invited to send our Expert specimens of their newspaper and other advertising, for the purpose of review in this department. Address care of Department of Advertising, HARDWARE AND METAL.

TASTY PRINTING.

PRINTING is necessarily the source of much profitable advertising, and the grade of the printing is not a small agency in creating the profit. This is a fact too often lost sight of by merchants. No matter how small your store is, whenever you get out any literature see that it is gotten out well.

When I say get your literature out well, I do not mean for you to have lavish printing, but simply good, clean, tasty, modern printing. The difference in the cost has to be weighed, but if you can spare $10 for printing you can, I think, spare $15 for good printing. If you cannot spare $15 for satisfactory work you cannot afford $10 for unsatisfactory work, because the measure of its success will be gauged by the measure of its strength. Nicely prepared literature has the same effect as nicely attired drummers. Both, at least, merit your attention, and that is a big part of the fight in these busy days.



In preparing the literature itself rather choose something of the booklet style—4 pages and cover make a neat size—than the plain, short-lived circular. Most people toss circulars into the fire. The same people would preserve a booklet. Now, the booklet gives the compositor a finer chance to display the art than does the bare circular. Consequently your words are given far greater emphasis, and the story you have to tell is driven home with far more force.

The booklet may be made tasty by having as few words as possible on the front cover—say a line something like this: "Between Ourselves," "Of Concern to You," "About Prices," "Mr. Consumer," etc. The booklet is rendered commonplace by covering the whole page with data or your imprint. The specimens here given are samples of a booklet cover and first page.

If your business is very small and the booklet out of the question, use a neat folder in preference to the circular. Long and narrow shapes are the prevailing styles.

In preparing copy for the printer time and expense will be saved by writing in ink, legibly, and on one side of paper not too large. Do not put too much wording on a page. If you have any designs of your own outline them in the copy. Rule work predominates, and aided by "white" space and nice balance, a pretty effect can be produced.

Of course the main thing, after all, is: Why are you getting out literature? Are you getting it out on time? Will it pay you to get it out?

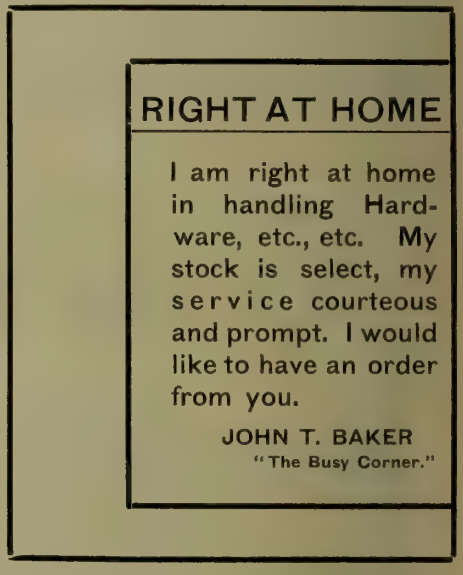
To be able to cover such a field advantageously it is necessary to have a clear conception of the actual conditions—trade, situation, stock, class of customers, etc. If the prospective advertiser will write in the full particulars, I will try to be of service to him, practically, as is the intention of this department.

—

A CHOICE batch of literature, which the Dover Mfg. Co., Ohio, distribute among their dealers for advertising purposes, comes to me. This literature is prepared systematically, and is, consequently, very diversified in character. Almost every conceivable line of argument is taken up, and all manner of typographical designs are employed to assist the argument. There is, first, a little booklet, unique in make-up, containing general hints, a few illustrations, and just sufficient details to be interesting; then there is an elegantly gotten up booklet proper, printed in two colors on tinted paper. This is of a more analytic character than the first one, greater scope accruing to its size. This booklet is composed of ten pages of logical reasoning, covering practically the whole field—a discourse as an introduction; clear-cut details at the close. Three or four styles of folders, usually confined to essential data, and illuminated by illustrations, are also given. There is, besides, a talk on the subject of asbestos sad irons by a specialist, and right good stuff it is, too. A yellow flyleaf is replete with testimonials, and last, but not least, is a book of model advertisements. The terse ad., the prolific ad., the ornamented ad., the plain ad., the straight talk, the artistic talk—specimens of all these are to be found, arranged for the convenience of dealers. The printing throughout is tasty, the stock used select, and the illustrations need no apology.

Literature of this kind is worth a study. Specialists prepare it; specialists supervise it. The successive stages in its preparation from composition to mailing is done with precision. Consequently, needless expenditures are curtailed, time is saved, and results are made surer.

As advertising is a concrete business itself, not an abstract, alternating principle, or infinitesimal portion of a business, as some seem to regard it, it must be dealt with just in the same manner as the particular business with which it is working in conjunction. In proportion to the attention given it, in proportion are the gains. If the advertising is carried along in a dilatory or perfunctory way, it will be dilatory in bearing fruit and perfunctory in what it bears. There is nothing new in this statement, and I do not pretend that there is, but the failure to recognize it perpetually is the cause for a good deal of the distrust, belief and half-hearted faith in advertising. I have in mind the manager of a large concern who has his ad. writer prepare literature for him in due season, but, by his methods of passing proof, his tendency to hold pages for this one and that one to see, or for newer details, usually has it dispatched to bring business when some other systematic firm has brought in the business weeks before. I do not mean to infer by this that a concern's Spring or Fall orders depend upon a booklet, or for that matter depend upon any literature, but if there is a reason for issuing the booklet, or any other such medium of advertising, and that reason is to get business, such business will be got in season, not out of season.



The skill of preparing advertising is great; the knowing when to prepare it greater.

"The Light of the World"

is

MAXIMUM LIGHT GLASS

No one can disprove that, for ***MAXIMUM LIGHT GLASS*** has completely proven it. It has worked wonders wherever employed, because it incorporates the latest scientific light-giving methods and because it adopts methods entirely original of controlling the light from the sky.

We will make it worth your while to correspond with us.

Sole Canadian Agents:

THE HOBBS MANUFACTURING CO., Limited, LONDON, ONT.

Class Importers and Manufacturers.

MANY OF THE BEST ARCHITECTS ARE SPECIFYING

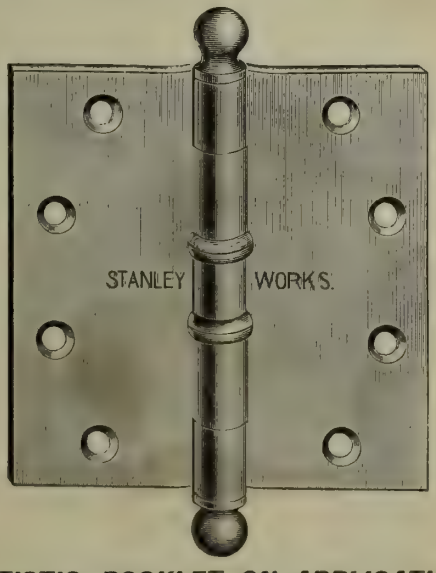
Stanley's Ball-Bearing Hinges

FOR ALL THEIR IMPORTANT WORK. ***DEALERS SHOULD HAVE THEM IN STOCK.***



CUT OF WASHER
FULL SIZE

IT IS SO CONSTRUCTED THAT IT WILL NOT COME APART IN USE



MADE IN WROUGHT BRONZE AND STEEL

ARTISTIC BOOKLET ON APPLICATION.

THE STANLEY WORKS, New Britain, Conn.

FOR SALE BY LEADING JOBBERS.

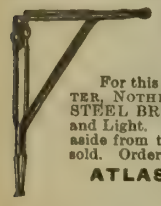
STREET PAVING and SIDEWALKS a SPECIALTY

SILICA BARYTIC STONE CO.

OF ONTARIO Limited

Wat-r Proof Floors for Malt Houses, Breweries, Slaughter Houses Cheese Factories, Cellar, Stable Floors, etc

Head Office:
Ingersoll, Ontario.
Walter Mills, General Manager
Ask for quotations for Septic Tanks.



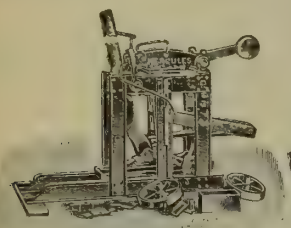
Will Hold Up a Shelf!

That's what a shelf bracket is for.

For this purpose there can be NOTHING BETTER, NOTHING CHEAPER than the BRADLEY STEEL BRACKET. It is well Japanned, Strong and Light. The saving in freight is a good profit aside from the lower price at which the goods are sold. Order direct or through your jobber.

ATLAS MFG. CO.,
New Haven, Conn., U.S.A

Bricks! Bricks! Bricks!



If you know of anyone intending to make bricks induce him to use one of our

Hercules Handpower Press

IT WILL PAY YOU

No previous experience needed.

BOSSON BROS., Engineers

P. O. Box 198 BRUSSELS (Belgium)

Cable Address "FORWARD BRUSSELS."
Indents through European merchants.

...FULL STOCK...

Salt Glazed Vitrified

SEWER PIPE

Double Strength Culvert Pipe a Specialty.

THE CANADIAN SEWER PIPE CO.

HAMILTON, ONT. TORONTO, ONT.
ST. JOHNS, QUE.

CONCRETE VENEER

Absolutely Fireproof
Frost Proof
Anchored direct to the Sheeting
1 inch in thickness
Cheap as Roughcast

Mould and Territory For Sale

CONCRETE BLOCK MACHINE CO.

32 Church St., - Toronto.

INDUSTRIAL GOSSIP

HARDWARE AND METAL would be pleased to receive from any authoritative source industrial news of any sort, the formation or incorporation of companies, establishment or enlargement of mills, factories, foundries or other works, railway or mining news. All correspondence will be treated as confidential when desired.

BERLIN and Brantford are negotiating with an American company, represented by H. Rustad, of Cresco, Iowa, who manufacture a malleable stump puller, and also own a large brass goods plant in Milwaukee. All their goods are patented, both in the United States and Canada, and to save the patent from expiring there, they intend to build and operate a large plant somewhere in Ontario, where the two lines are to be made. Mr. Rustad says that the field for their brass goods in Canada is a vast and inviting one, and by manufacturing here the duty would also be overcome. The export trade could also be handled as advantageously from a Canadian plant as from the one in the United States. The firm has just closed an immense order with the Standard Oil people to provide them with brass supplies. That will tax all the energies of the present plants, and is also a reason for them seeking new quarters. They are at present temporarily making some of the lines at Toronto, but it is not likely they will stay there.

Bell Telephone Co. is increasing its capital from $8,000,000 to $9,000,000.

Canadian Glue Co. are arranging to build three new buildings at Brantford.

Scott Muffler Co., employing 20 hands, have opened a factory at Niagara Falls.

Cockburn Lumber Co., Sturgeon Falls, are to rebuild their broom factory and install new machinery.

Ingersoll has granted a loan of $25,000 to the Ingersoll Nut Co., who agree to employ 40 men in their factory.

The Raymond Gas & Engine Co. will locate their works at Port Arthur, Ont., and will give employment to about 200 men.

An amalgamation may take place between the Hamilton, Ancaster & Brantford Railway and the Brantford and Erie Railway.

Operations are to be resumed by the Millerton Tanning Extract Co. in their mill near Harcourt, N.B. Thirty men will be employed.

Halifax is endeavoring to secure the Bell Hotel Telephone Co. as a new industry. About 25 men would be employed in the factory.

Sandwich is the latest place to claim to be the location of the proposed $10,000,000 plant of the United States Steel Corporation in Canada.

New buildings will be erected in Peterboro this year by the Canadian General Electric Co., the new stock issue of $1,125,000 having been taken up.

The Ottawa Board of Works have awarded the contract for a ten-ton steam roller to Julian Scholl & Co., New York City at a cost of $2,700.

Brampton and Stratford both claim to be likely to secure a new roofing factory to employ 50 men, and to be operated by the Philip Carey Mfg. Co., of Toronto and Montreal.

The Imperial Steel & Wire Co., Collingwood, Ont., will double the capacity of their plant, which will be 50 tons minimum of finished wire products daily. Additional machinery, engines, boilers, etc., will be ordered at once.

The dredge King Edward is working alongside the new canal wall built a year ago at Cornwall, and will excavate the entrance to the old canal to a depth of fourteen feet, to allow vessels of deep draught to enter the dry dock.

Messrs. Penniman & McGuire, Providence, R.I., have commenced work on the large dam of the Koochiching Power Co., at Fort Frances, Ont. It is estimated that the works will consume 100,000 barrels of cement, and that the total expenditure will exceed $3,000,000.

West Kootenay Light & Power Co. is to establish a plant at Upper Bonnington Falls, to cost $1,000,000, and to generate 24,000 horse-power for use in Grand Forks, Phoenix and Greenwood, in the Boundary Country. The plant at the lower falls already generates 4,000 horse-power.

The Owen Sound Iron Works, Owen Sound, Ont., have completed three coal hoppers for the Shallow Lake Cement Works. They also have ready for shipment to Lakefield, Ont., a rotary cooler and pump, three elevators, three coal hoppers and smokestack for the cement works there.

Walter M. Lowney, chocolate manufacturer, Mass., is to establish a large factory at Montreal, Canada, to consist of a main building 55 x 100 feet and six storeys, with a two-storey ell 27 x 100 feet, in which will be installed the boiler, engine, electrical machinery and refrigerating plant.

The Morris, Baird Co., of Victoria, may establish a branch at Vancouver. Mr. Baird, of the firm, has spent several days here, looking over the ground. The firm manufactures polishes of all kinds for leather, metal or wood, and makes ink and paint as well. The raw material used is brought from Port Renfrew on the northern coast.

The Dominion Iron & Steel Co.'s blooming mill is again in operation, and the rod mill also resumed work this week. Work was started a few days ago on the excavations for fifty new coke ovens, which the company propose to build. These ovens will be the same as the ones already in use, and fifty built some time ago, which were found to be unsatisfactory, will be changed to by-product ovens.

Canadian exports of lumber to the United States have grown very greatly during the pase five years. The value of the exports of wood and the manufactures to that country in 1898 was $9,840,524, and in 1903 it had risen to $18,823,878, an increase during that time of $8,983,354, or something like 90 per cent. The total exports to all countries in 1903 amounted to $40,742,641,

an increase of $5,567,167 over that of the previous year.

The proposed Michigan Central tunnel under the Detroit River will be two miles in length. Twin tubes will be laid beneath the river in the one subway. Electric traction will be the motive power used. An extensive power station will be erected on the Detroit side. The locomotives used will be about 7,500 h.p. each. Each tube will have a single track, using the third rail electric system. The entire work of construction will be done from the Windsor side, the offices of the company being located there. The supposed cost of the tunnel is about $7,500,000.

The Canada Steel Goods Co., Limited, of Leamington, Ont., has decided upon the removal of its plant to Hamilton, where a large factory site has been purchased adjoining the Canadian Drawn Steel Co.'s factory. The company will at once erect a building 250 feet by 80 feet. This company has recently purchased some other manufacturing concerns in other parts of Ontario, and it is its intention to consolidate them and bring the entire plant to Hamilton. All classes of high grade stamped steel goods are manufactured. A working staff of 75 or 100 will be employed.

Companies Incorporated.

The Canadian Rubber Co., of Montreal, Limited, have been granted additional powers under the Canadian act under which they are incorporated. The share capital is now $4,000,000.

J. W. Harris Co., Limited, Montreal; share capital $150,000; purpose, to do a general contracting business. The directors are: J. W. Harris, W. B. Powell, F. D. Munk, F. Z. Durand and P. G. Martineau, all of Montreal.

Paul Automatic Gas Co., Limited, Montreal; share capital $145,000; purpose, to manufacture gasoline machines. The directors are: F. Paul, jr., F. Paul, sr., E. Chapdelaine, O. Dupois, of Sorel, Que.; and G. Leclarc, of Montreal.

Ajax Metal Co., of Canada, Montreal; share capital $50,000; purpose, to manufacture metals and alloys. The directors are: G. M. Pyke, J. R. Meadowcroft, W. D. Hutchings, W. J. Henderson and W. D. Garland, all of Montreal.

Standard Explorers, Limited, Montreal, share capital $300,000; purpose, to manufacture explosives and chemicals. The directors are: W. T. Rodden, J. F. Johnson, W. J. White, A. W. P. Buchannan and E. H. Barker, all of Montreal.

Carter White Lead Co. of Canada, Montreal; share capital $475,000; purpose, to manufacture lead products. The directors are: E. J. Cornish, Omaha; P. M. Carter, J. F. Oshmera, C. F. Morrow, and J. W. Nield, all of Montreal.

Portland Mica Co., Limited, Ottawa; chare capital $6,000; purpose, to develop mineral property. The directors are: F. W. Webster, Boston, Mass.; J. F. Higginson, Buckingham, Que.; H. Aylen, Ottawa; Q. R. Taylor and T. W. Symmes, both of Aylmer, Que.

Union Screen Plate Co., of Canada, Limited, Lennoxville, Que.; snare capital $20,000; purpose, to manufacture machinery and carry on a general iron and brass foundry business. The directors are: E. Crocker, Fitchburg, Mass.; H. W. S. Downs, G. Henry, F. Gadette, all of Lennoxville, Que.; and H. D. Lawrence, of Sherbrooke, Que.

Pedlar Talks

"KEEPING EVERLASTINGLY AT IT BRINGS SUCCESS."

No. 8. OSHAWA, ONT. June 10, 1905

THE OUTGROWTH

Perfect Metal Lath was ushered in because a faulty, indurable, unhealthy wooden lath—the servant of fire, the enemy of expediency, the assassin of economy—had outgrown its usefulness. Builders who knew things recognized at once in **Perfect Metal Lath** an asset of inestimable value to their business. It was cheap, serviceable, fireproof, sanitary, scientifically constructed and durable. **So they bought it.**

THE OUTPUT

Orders came in for **Perfect Metal Lath,** until now we have the finest machinery in the world for the manufacture of metal lath, and an output of 10,000 sq yds. daily! Think of it! And the price, 10c. per sq yd.!! Made with a positive key, an accurately-gauged mesh, and made to be applied quickly and permanently—there is no other lath the equal of **Perfect Metal Lath,** no matter **where** you go to **get** it, no matter **what** you **pay** for it.

THE OUTLOOK

The outlook for **Perfect Metal Lath** is sanguine indeed. We have established branches all over the world and seen the goods go out of those branches. But **Perfect Metal Lath** is not well enough known yet in Canada—known as well as it deserves. That is why we keep "everlastingly at it." There are a number of Canadian dealers who do not recognize the opportunities which **Perfect Metal Lath** offers—sales to builders, special inducements from us. We would like to tell our story personally to such dealers. Are you one? Will you write?

The Pedlar People

of OSHAWA, ONT.

MONTREAL—767 Craig St. OTTAWA—423 Sussex St. TORONTO—50 Yonge St.
VANCOUVER, B.C.—615 Pender St. SYDNEY, AUSTRALIA—189 Clarence St.
CAPE TOWN, S.A.—141 Longmarket St.

WRITE YOUR NEAREST OFFICE.

HOTEL DIRECTORY.

NEIL McCARNEY, Prop. W. C. McCARNEY, Manager

THE PROVINCIAL

Leading Commercial Hotel. GANANOQUE, ONT
Located in Heart of Business Section. Ten First-class Sample Rooms.

HOTEL GRAND

O. F. BAKER, Prop. GALT, ONT
First-class accommodation for Commercial Men.

WINDSOR HOTEL, HAMILTON, BERMUDA

This House is pleasantly and conveniently located on the East Side of Queen Street. The rooms are bright and cheerful. Every attention paid to guests. Billiards and pool. Hot and cold water baths. A. McNICOL, Prop.

TOWER HOTEL, GEORGETOWN, DEMERARA, BRITISH GUIANA.

This first-class hotel is most conveniently situated in the coolest and healthiest part of the city, within one minute from Post and Telegraph Offices, Tram Junction and principal clubs. Five minutes from railway station and steamer stallings, and near to all principal public buildings. Cool and lofty bedrooms. Spacious Dining and Ladies' Rooms. Billiard Room. Electric light throughout.

VICTORIA LODGE

Mrs. J. F. SMITH, Proprietor. HAMILTON, BERMUDA
Opposite Victoria Park and Cedar Ave. Private board $12 to $14 per week.

BOARD AND ROOM
"THE ARGYLE,"

Mrs. FRASER Cedar Avenue, HAMILTON, BERMUDA
Terms moderate. Also furnished cottages.

THE AMERICAN HOUSE

A. PASCHAL (Prop.) HAMILTON, BERMUDA
Centrally located. Open all the year round.

WOODSIDE BOARDING HOUSE

(Corner of Main and Lamaha Streets, GEORGETOWN, DEMARARA.)

Cool and airy Bedrooms, Excellent Cuisine, Attendance Qualified. Terms Moderate. Electric Car Loop at gate of premises. Patronage Solicited. Manageress, E. COTTAM.

WINTER RESORT—QUEEN'S PARK HOTEL.

PORT OF SPAIN, TRINIDAD, B.W.I.

JOHN McEWEN, Manager. For Rates, etc., apply Trinidad Shipping & Trading Co., 29 Broadway, New York.

Successful Advertising—How to Accomplish It

By J. ANGUS MACDONALD

A volume of 400 pages packed full of good stuff for advertisers. Price $2.00.

Sent post paid upon receipt of price.

TECHNICAL BOOK DEPARTMENT
MACLEAN PUBLISHING CO. LIMITED, TORONTO.

THE TELEPHONE

Is a companion, friend and servant combined
Invaluable for convenience in the household.

LONG DISTANCE TELEPHONE SERVICE

Has no equal for the facility it affords in business life.
Full particulars as to rates and service at the nearest office of

THE BELL TELEPHONE COMPANY OF CANADA

FINANCE

CANADIAN banking institutions have a record of solidity which is a source of strength and confidence to depositors. A further security to the public is being provided by a strict enforcement of the Bank Act. This Act provides that the title bank, banking company, banking house, or banking association, shall not be used without the express permission of the Ottawa Government, and without using at the same time the words, "not incorporated." According to the officials of the Canadian Bankers' Association, the indiscriminate use of the words bank, banking company, etc., utterly without legal authority, by people more or less irresponsible, have in many cases deluded the public and been the cause of financial losses by people who were ignorant of the facts.

* * *

Reports on the life insurance business transacted in Canada during the year 1904 show that this form of investment is held in high favor in this country. There were in force in Canada at the close of 1904 in the stock or old line companies, 656,891 policies, to the extent of $587,873,767, an increase over the figure for 1903 of 53,068 policies, and $39,430,767. The main items of the business of 1904 are given as follows: Premiums, $19,969,324; amount of new policies, $98,306,102; policies became claims, $8,802,118; claims paid, endowments included, $8,815,839. Canadian companies, it is a satisfaction to note, continue to hold the lead they won years ago, and wrote $11,959,100 of the total of $19,969,324 of new business recorded. The division was as follows: Canadian companies, $11,959,100; British companies, $1,473,514; U. S. companies, $6,536,710.

* * *

It would appear that the newer companies to enter the field find the work of establishing their claims to a share of the business a rather hard one. There are 21 Canadian companies doing business, and five of them wrote seven and a half millions of the less than twelve millions of new policies the whole are credited with. It evidently takes time to organize the staff that is necessary to create and maintain a large life underwriting business under modern conditions. There is plenty in the record of the old competitors, however, to encourage the new. Since 1875, to which year the records go back, the amount of life insurance carried in Canada in stock companies has grown from eighty-five to five hundred and eighty-seven millions. It has been multiplied almost seven times, and the limit does not seem to be reached yet.

* * *

The semi-annual statement of the Bank of Montreal for the six months ending April 29, 1905, shows profits for that period, after deducting charge of management and making provision for all bad and doubtful debts, of $781,960.40, as compared with $804,833.79 during the same period of 1904. The balance of profit and loss brought forward from October 31, 1904, was $583,196.01, as compared with $373,988.06 during the same period of the previous year. After providing for a dividend of five per cent. for the half year, there remains to be carried forward to the credit of profit and loss $655,156.41, as compared with $478,821.85, an increase of $186,334.56.

1,000 White Business Envelopes, $1.00

(PRINTED TO ORDER)

This offer is to get you started. We want your trade, and we don't do cheap-looking work, either. Give us your next job, and you will be satisfied.

G. A. WEESE & SON, 44 Yonge St., TORONTO

Write for Catalogue of Printing.

ALCOHOLISM The best treatment for all persons afflicted with the disease of drunkenness, is known only to

DR. MacKAY, Address City Hall, Montreal, Que.

Absolutely private treatment.

WESTERN ASSURANCE COMPANY. Incorporated 1851

FIRE AND MARINE

Head Office **Toronto, Ont.**

Capital - $1,500,000.00
Assets, over - - 3,300,000.00
Annual Income - 3,890,000.00

HON. GEO. A. COX, President.

J. J. KENNY, Vice-President and Man. Director.

C. C. FOSTER, Secretary.

THE CANADIAN BANK OF COMMERCE

Paid-up Capital, - - $8,700,000
Rest, - - - - - - $3,500,000

HEAD OFFICE : TORONTO, CANADA

HON. GEO. A. COX, Pres. B. E. WALKER, General-Manager.

LONDON, ENG., 60 Lombard St., E.C. S. Cameron Alexander, Manager.

NEW YORK, N.Y., 16 Exchange Place, Wm. Gray and H.B. Walker, Agents.

TRAVELLERS' LETTERS OF CREDIT

The Travellers' Letters of Credit issued by this Bank are a great convenience to Travellers. They are available in all parts of the world, and the holder is enabled, without risk or difficulty, to obtain such sums as he requires at any point in his journey.

BANK MONEY ORDERS

AT THE FOLLOWING RATES :

$5 and under ..... 3 cents
Over $5 and not exceeding $10..... 6 cents
" 10 " " 30..... 10 cents
" 30 " " 50..... 15 cents

These Orders are **Payable at Par** at any office in **Canada** of a **Chartered Bank** (Yukon excepted), and at the principal banking points in the **United States.**

Negotiable at a fixed rate at The Canadian Bank of Commerce, London, Eng.

Money

CAN BE SAVED BY MEANS OF AN ENDOWMENT POLICY.

YOU CAN ONLY SECURE SUCH A POLICY WHILE YOU ARE IN GOOD HEALTH.

Pamphlets and Full Particulars regarding the New Accumulation Endowment Policy sent on application.

Confederation Life ASSOCIATION

W. H. BEATTY, President.

W. C. MACDONALD, ACTUARY. J. K. MACDONALD, MANAGING DIRECTOR.

HEAD OFFICE, - TORONTO, CANADA.

CAPITAL PAID UP, - - $1,000,000.
RESERVE FUND, - - 1,000,000.

THE METROPOLITAN BANK.

DIRECTORS

R. H. WARDEN, D.D., President S. J. MOORE, Esq., Vice-President
D. E. THOMSON, Esq., K.C. His Honor W. MORTIMER CLARK, K.C.
THOS. BRADSHAW, Esq. JOHN FIRSTBROOK, Esq.,

HEAD OFFICE, - TORONTO.

W. D. ROSS, GENERAL MANAGER.

GENERAL BANKING BUSINESS TRANSACTED

SAVINGS DEPARTMENT at all Branches.

ACCOUNTS SOLICITED

Drafts Bought and Sold.
Letters of Credit Issued.

BRITISH AMERICA ASSURANCE COMP'Y

FIRE AND MARINE.

Incorporated 1833

CASH CAPITAL, $850,000.00.
TOTAL ASSETS, $2,043,678.59.
LOSSES PAID SINCE ORGANIZATION, $25,868,544.80.

HEAD OFFICE, - BRITISH AMERICA BUILDING,
Cor. Front and Scott Sts., Toronto.

HON. GEO. A. COX, President. J. J. KENNY, Vice-President and Managing Director.
P. H. SIMS, Secretary.

NOVELTIES FOR THE HARDWAREMEN

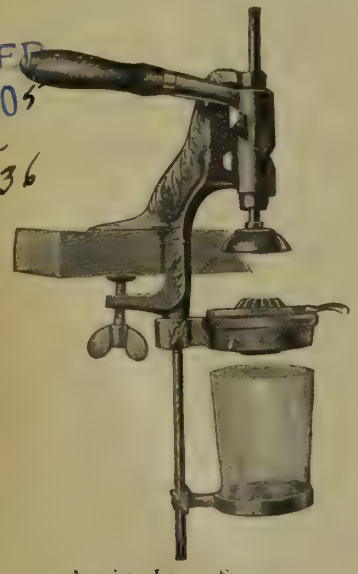
PREMIER AND AMERICAN LEMON SQUEEZERS.

LOGAN & STROBRIDGE IRON CO., New Brighton, Pa., are offering the new lemon squeezers shown herewith. Figure 1 illustrates the Premier style, which has a rotary plunger motion,



Premier Lemon Squeezer.

will accommodate the largest lemons, and, it is said, will extract all the juice. It has a separate strainer cup with



American Lemon Squeezer.

handle, by means of which the rind and seeds can be discarded without soiling the hand. Figure 2 shows the American squeezer, which has some of the same features. Both can be attached readily to bench, table or bar. The metallic parts which contact with the juice are heavily coated with pure tin to prevent corrosion. Both have adjustable glass holders and handles that extend backward and out of the way when not in use, and are finished in heavily polished nickel or oxidised copper, packed singly in a strong box or six in a case.

GALVANIZED REFRIGERATORS.

The small refrigerator shown on this page is made entirely of galvanized iron, having double walls and a roomy provision chamber with a well arranged ice compartment. It is fitted with a nickel-plated lever top for drawing water from the ice, while the sectional shelves can be taken out so that large dishes can be placed in the box. The refrigerator is manufactured by the McClary Manufacturing Co., London, and is just the thing

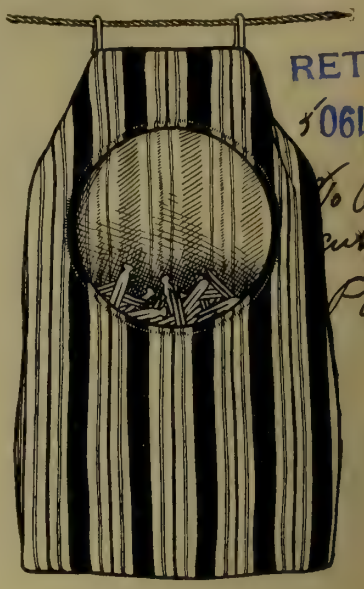


Galvanized Refrigerator.

for small families and camping parties, with whom space is a large consideration.

GLENNY'S CLOTHES PIN BAG.

W. H. GLENNY & CO., Rochester, N.Y., manufacture, among numerous specialties of a household character, a clothes pin bag, which has become exceedingly popular. It is made of heavy good quality fancy-striped ticking, with non-rusting wire frame. Will slide on line ahead of clothes as they are hung, and can be drawn on line after clothes as they are removed. They are made in two sizes, No. 10 and No. 20, holding six dozen and twelve dozen pins, respectively. They come packed one dozen in a bundle, with a colored display card furnished

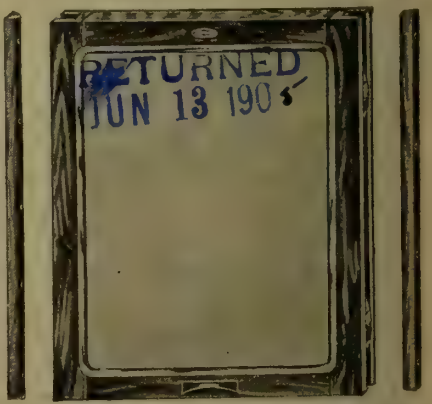


Clothes Pin Bag.

with each shipment. Another novelty made by the same company is the Dixie New Comprehensive Bottle Opener, which will open any bottle, draw corks, cut wire and lift caps. It is a unique and serviceable tool for every-day use.

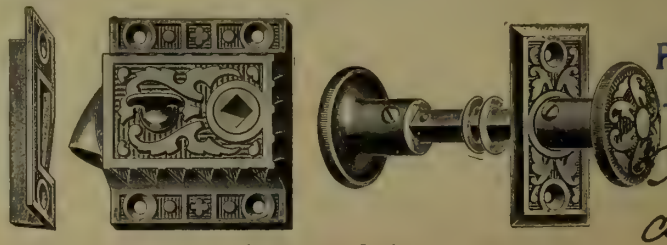
SCREEN DOORS AND WINDOWS.

The "Suburban" Pattern Sliding Window Screens illustrated are manufactured by the A. J. Phillips Co., Fenton, Mich., the cuts showing a type of frame which slides up and down on hardwood guides, and is held in place by flat steel springs in the groove at the edge.



"Suburban" Sliding Window Screen—Inside View.

The Phillips Company also manufacture hardware for screen doors, one of their lines being also illustrated.



Screen Door Catches.

This list is for the purpose of placing retailers, manufacturers' jobbers and other readers in touch with reliable and competent accountants and auditors whose services are so frequently required for such purposes as opening books,

Leading Canadian Accountants and Auditors

adjusting and auditing accounts, arranging partnerships or organizing joint stock companies, devising special office systems, making collections and investigations, handling estates, making valuations, etc.

DAVID HOSKINS, F.C.A.
Chartered Accountant, Auditor, Financial Valuator.
27 Wellington Street East, - - Toronto, Canada.

This Space $15 a Year.

JENKINS & HARDY,
Assignees, Chartered Accountants, Estate and Fire Insurance Agents.
15½ Toronto Street, Toronto.
465 Temple Building, Montreal.
100 William Street, New York.

This list is for the purpose of placing manufacturers, wholesale and retail merchants and other readers throughout Canada, and firms abroad doing business in Canada, in touch with the legal profession throughout the Dominion, for the collection of accounts, legal representation,

LEGAL CARDS.

organization of companies, the arrangement or dissolution of partnerships, or assignments, as well as all other matters of a legal nature.

For advertising rates apply to MacLean Publishing Co., Limited, Montreal or Toronto.

TUPPER, PHIPPEN & TUPPER,
Barristers, Solicitors, Etc.
Winnipeg, - - Canada.

ATWATER, DUCLOS & CHAUVIN
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Albert W. Atwater, K.C. Consulting Counsel for City of Montreal. Chas. A. Duclos. Henry N. Chauvin.

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Offices, Bank of Toronto.
Tel. Main 3813. - - - - - Toronto, Ont.

IRWIN & JONES, Barristers, etc.
H. E. Irwin, K.C., Clerk of the Peace, County of York; B. Morton Jones, B.C.L.; Solicitors for Equity Fire Insurance Co., Berlin Fire Insurance Co.
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Barristers, Solicitors, etc.
S. C. Mewburn, E. H. Ambrose,
Hamilton, Ont.

WM. A. McLEAN
Barrister, Solicitor, Etc.
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Branch Office, Acton, Town Hall.
Corporation Solicitor, Etc.

ROBINSON & GREEN
Barristers, Solicitors, Etc.
John A. Robinson. John R. Green.
Solicitors for the Imperial Bank of Canada, the Southern Loan & Savings Co., St. Thomas, Ont.

LOUGHEED & BENNETT,
Barristers, Solicitors, Advocates, etc.
Calgary, Can. Cables: Lougheed, Calgary
Solicitors for: Bank of Montreal, Canadian Bank of Commerce, Bank of Nova Scotia, Merchants' Bank of Canada.

This space $30 per year.

Educational Department.

The following institutions for the education of business men's sons and daughters are recommended by this paper:

St. Margaret's College, Toronto

A Boarding and Day School for Girls.
Thorough courses in every department.
Only teachers of the highest academical and professional standing employed.

GEORGE DICKSON, M.A., Director.
MRS. GEORGE DICKSON, Lady Principal.

METROPOLITAN

Telegraphy, Shorthand, Commercial, Civil Service, Banking Courses, the Best in Canada. We guarantee to place every competent Student. Ask for a list of our Students placed during the last three months. One or all courses same price. No Restrictions.

METROPOLITAN BUSINESS COLLEGE.
R. A. FARQUHARSON, B.A., Principal,
44 Bank St., Ottawa, Can.



THE
UNDERWOOD

The Writing-In-Sight Typewriter

Will do your work 25% to 50% faster than any other writing machine. Highest award "Grand Prize," St. Louis Exposition, 1904.

UNITED TYPEWRITER CO., LIMITED

7 ADELAIDE STREET EAST, TORONTO
and at
99 ST. FRANCIS XAVIER STREET, MONTREAL

HAMILTON LONDON OTTAWA QUEBEC ST. JOHN, N.B.

FOR SHEATHING TARRED FELTS READY ROOFING BUILDING PAPERS MANILLA WRAPPINGS

TRY

THIS  BRAND

QUALITY and FAIR PRICES

ARE OUR STANDARDS

ALEX. McARTHUR & CO., Limited, MONTREAL.

CURRENT MARKET QUOTATIONS.

June 9, 1905.

These prices are for such qualities and quantities as are usually ordered by retail dealers on the usual terms of credit, the lowest figures being for larger quantities and prompt pay. Large cash buyers can frequently make purchases at better prices. The Editor is anxious to be informed at once of any apparent errors in this list, as the desire is to make it perfectly accurate.

METALS.

TIN.

Lamb and Flag and Straits—	
56 and 28-lb. ingots, 100 lb.	$32 00 $33 00

TINPLATES.

Charcoal Plates—Bright.

	Per box.
M.L.S., equal to Bradley—	
I C, usual sizes	$6 50
I X "	8 00
I X X "	9 50
Famous, equal to Bradley—	
I C	6 50
I X	8 00
I X X	9 50
Raven and Vulture Grades—	
I C, usual sizes	4 25
I X "	5 00
I X X "	5 75
I X X X "	6 50

"Dominion Crown Best"—Double Coated, Tissued.

	Per box.
I C	5 50
I X	6 50
I X X	7 50
I Allaway's Best"—Standard Quality.	
I C	4 50
I X	5 50
X	6 50

X Coke Plates—Bright.

Bessemer Steel—	
I.C., usual size, 14x20	3 50
I.C., special sizes, base	3 75
20x28	7 50

Charcoal Plates—Terne

Dean or J. G. Grade—	
I.C., 20x28, 112 sheets	7 50
IX., Terne Tin	10 50

Charcoal Tin Boiler Plates.

Cookley Grade—	
X X, 14x56, 50 sheet bxs.	7 00
" 14x60, "	
" 14x65, "	

Tinned Sheets.

72x30 up to 24 gauge	7 25 7 50
" " 26 "	7 75 8 00

IRON AND STEEL.

	Montreal.	Toronto.
Common bar, per 100 lb	1 80	1 80
Forged iron "	2 05	2 05
Refined " "	2 20	2 05
Horseshoe iron "	2 02½	
Hoop steel, 1½ to 3 in. base		
Sleigh shoe steel "	1 97½	
Tire steel	2 07½	
T. Firth & Sons, tool steel—		
Speedicut		0 60
Annealed speedicut		0 65
Self-hardening		0 36
Best tool steel		0 12
Warranted		0 09
Best sheet steel		0 12
B. K. Morton & Co.—		
"Alpha" high speed		0 65
" annealed		0 70
"M," Self-hardening		0 50
"J" quality		0 18
"I" "		0 14
"B C" "		0 09
Jonas & Colver's tool steel	0 10	0 20
" "Novo"		0 65
" " annealed		0 70
Chas. Leonard	0 08	0 09
Crucible Steel Co.—		
" Rex high speed steel	0 65	0 75
" Self-hardening	0 45	0 50
Crucible Special		0 17
" Silver steel		0 13
" Black Diamond	0 10	011
Sanderson's Crucible steel	0 08	0 09
" Superior "	0 12	0 13

BABBIT METAL.

Syracuse Smelting Works:	
Aluminum, genuine	0 45
Government, "	0 44
Tough, "	0 40
Hard, "	0 40
Dynamo	0 30
Special	0 25
Maganese	0 18
Car Box	0 17
Extra	0 13
No. 1	0 10
No. 2	0 07
No. 3	0 05½

Large orders subject to discounts.

The Canada Metal Co.:	
Imperial, genuine	0 40
Metallic	0 30
Hercules	0 20
Star	0 15
No. 1	0 12
No. 2	0 10
No. 3	0 06
No. 4	0 05

BLACK SHEETS.

	Montreal.	Toronto
10 gauge	2 30	2 30
12 and 14 gauge	2 25	2 35
17 "	2 20	2 40
22 to 24 gauge	2 05	2 50
26 "	2 10	2 65
28 "	2 15	2 70

COPPER WIRE.

Discount, 50 per cent.

CANADA PLATES.

Ordinary	2 50
All bright	3 75
Galvanized Canada Plates—	

J. C. M. 3 Crowns

16 x 21 x 60	3 33
18 x 24 x 52	3 33
18 x 24 x 60	3 56

	Ordinary.	Dom. Crown.
18x24x52	4 25	4 35
" 60	4 50	4 60
20x28x80	8 50	8 70
" 94	9 00	9 20

GALVANIZED SHEETS.

	Fleur-de-Lis.	Gordon Crown.
16 to 20 gauge	3 40	
22 to 24 gauge	3 50	3 50
26 "	3 75	3 75
28 "	4 00	4 15

	Comet Bell.	Queen's Head
16 to 20 gauge	3 40	
22 to 24 gauge	3 45	3 65
26 "	3 70	3 90
28 "	3 95	4 15

American brands, $3.90 for 10¾ oz.
Less than case lots 10 to 15c. extra.

CHAIN.

Proof coil, 3-16 in., per 100 lb.		7 00	10 00
"	¼ "		5 60
"	5-16 "		4 45
"	⅜ "		3 85
"	7-16 "		3 70
"	½ "		3 55
"	9-16 "		3 45
"	⅝ "		3 35
"	¾ "		3 25

Halter, kennel and post chains, 40 to 40 and 5 per cent.

Cow ties	40 p.c.
Tie out chains	65 p.c.
Stall fixtures	35 p.c.
Trace chain	45 p.c.

Jack chain, iron, single and double, discount 35 p.c. [count 40 p.c.

Jack chain, brass, single and double, dis-

COPPER.

	Ingot.	Per 100 lb.
Casting, car lots	16 25	16 50

Bars.

Cut lengths, round, ½ to ⅞ in.	21 00 23 00
" round and square,	
Cut 1 to 2 inches	21 00 23 00

Sheet.

Plain, 16 oz,, 14x48 and 14x60	21 00
Plain, 14 oz	22 00
inned copper sheet	24 00
lanished	32 00

Braziers' (in sheets).

4x6 ft., 25 to 30 lb. each, per lb.	0 22
" 35 to 45 " "	0 21
" 50-lb. and above "	0 20

BOILER AND T.K. PITTS.

Plain tinned, Spun } 41½ per cent. off list.

BRASS.

Rod and Sheet, 14 to 30 gauge, 10 per cent.	
Sheets, hard-rolled, 2x4	0 23
Tubing, base, per lb	0 23½

ZINC SPELTER.

Foreign, per 100 lb	7 00	
Domestic " "	6 75	7 00

ZINC SHEET.

5-cwt. casks	7 00
Part casks	7 25

LEAD.

Imported Pig, per 100 lb	3 50	3 75
Bar, " "		4 80
Sheets, 2½ lb. sq. ft., by roll		0 06½
Sheets, 3 to 6 lb. "		0 06

NOTE.—Cut sheets ½c. per lb., extra. Pipe, by the roll, usual weights per yard, lists at 7c. per lb. and 35 p.c lis. f.o.b. Toronto.

NOTE.—Cut lengths, net price, waste pipe 8-ft lengths, lists at 8c.

ANTIMONY.

Cookson's per lb.	0 09½

SHOT.

Common, $6.50 per 100 lb.; chilled, $7.00 per 100 lb.; buck, seal and ball, $7.50. Discount, 15 p.c. Prices are f.o.b. Toronto, Hamilton, Montreal, St. John and Halifax. Terms, 2 p.c. for cash in thirty days.

PLUMBING GOODS.

BATH TUBS.

Zinc	6 00
Copper, discount 20 per cent. off revised list.	

BATHS.

Standard Ideal Enameled.

Plate E I, Fittings extra		1st quality	Special
4 and 4½ ft.	3 in. rolled rim	$18 00	16 00
5 feet	"	19 00	17 00
5½ "	"	20 50	18 50
6 "	"	23 25	21 25
Plate E II			
4½ feet	2½ in. "	16 75	14 75
5 "	2½ " "	17 50	15 50
5½ "	2½ " "	19 00	17 00
Plate 123 E, lavatories		1st quality	8 90
" 123 E, "		2nd "	7 50
" 127 E, "		1st "	5 70
" 127 E, "		2nd "	4 80
" 128 E, "		1st "	5 60
" 128 E, "		2nd "	4 70
" 129 E, "		1st "	5 40
" 129 E, "		2nd "	4 50
Sinks 18 x 30 in flat rim, A quality			2 45
" " " " " B "			00

IRON PIPE.

Black pipe—	Per 100 feet.
⅛ inch	2 75
¼ "	2 04
⅜ "	2 06
½ "	2 30
¾ "	2 88
1 "	4 12
1¼ "	5 62
1½ "	6 75
2 "	9 00

Galvanized pipe—	
⅛ inch	2 86
¼ "	2 89
⅜ "	3 14
½ "	4 02
1 "	5 77
1¼ "	7 88
1½ "	9 45
2 "	12 60

Malleable Fittings—Canadian discount 35 per cent. American discount 20 to 25 per cent.

Cast Iron Fittings— Standard bushings 50 and 10 and 10 per cent.; headers, 60; flanged unions and lipped, 60 and 5; malleable bushings, 65; nipples, up to 6 in., 75.

PLUMBERS' BRASS GOODS.

Standard Compression work, dis. 60 p.c.
Cushion work, discount 50 per cent.
Fuller work, discount 65 per cent.
6 dozen lots and over of the above, extra discount 10 per cent.
Lever handle Stops and Waste, discount 55 per cent. With in lots of 2 dozen and over, an extra discount of 10 per cent.
J.M.T. Globe, Angle and Check Valves, discount 55 per cent.
Standard Globe, Angle and Check Valves, discount 65 per cent.
Kerr's special standard globes and angles, discount 55 per cent.
Kerr's Jenkin disc, copper-alloy disc and heavy standard valves, discount 55 per cent.
Kerr's standard brass checks, discount 55 p.c.
Kerr's standard brass disc steam radiator valves, discount 65 per cent.
Kerr's Jenkin disc, copper-alloy disc radiator valves, discount 65 per cent.
Kerr's quick-opening hot-water radiator valves, discount 65 per cent.
Weber's (Kerr) patent straightway gate valves, brass, discount 50 per cent.
Weber's (Kerr) patent straightway gate valves, I. B. B. M., discount 60 and 10 per cent.
J. M. T. Radiator Valves discount 55 per cent.
Standard Radiator Valves, discount 65 per cent.
Patent Quick-Opening Valves, discount 7 and 10 per cent.

No. 1 compression bath cock	net 1 75
No. 4 " "	" 1 90
No .7 Fuller's	" 2 20
No. 4½, "	" 2 35

Patent Compression Cushion, basin cock, hot and cold, per doz., $31; 5 and 10 per cent. discount.

Patent Compression Cushion, bath cock, No. 2208 2 25
Square head brass cocks, discount 55 per cent
" " iron " " 60 "
Thompson Smoke-test Machine $25.00

RANGE BOILERS

Copper, 30 gallon	" 22 00
" 35 "	" 24 00
" 40 "	" 28 00

Discount off copper boilers 15 per cent.

GALVANIZED IRON RANGE BOILERS.

Capacity. Gals.	Standard.	Extra heavy
12	4.50	6.50
18	4.75	6.75
24	4.75	6.75
30	5.00	7.50
35	6.00	8.50
40	7.00	9.50
52	11.00	14.00
66	18.00	20.00
82	21.00	24.00
100	29.00	34.00
120	34.00	40.00
144	47.00	55.00

Clauss Brand Buttonhole Scissors

FULLY WARRANTED

Our Ratchet Pattern Buttonhole Scissors. Most desirable buttonhole scissors of any on the market. Perfectly adjusted, even and straight cut. Length of cut marked in figures on ratchet so as to gauge size of buttonhole. Ask for discounts.



The Clauss Shear CO., - Toronto, Ont.

SOIL PIPE AND FITTINGS.

Med. and Extra heavy pipe and fittings, dis. 60 per cent.
7 and 8-in. pipe, discount 40 and 5 per cent.

SOLDER.

	Per lb
Bar, half-and-half, guaranteed	0 17½
Wiping	0 15½
Refined	0 16½

PAINTS AND OILS.

COLORS IN OIL.

1-lb. tins, pure.

Venetian red, per lb.	0 08
Chrome yellow	0 15
Golden ochre	0 08
French "	0 06
Marine black	0 04
Chrome green	0 10
French permanent green	0 13
Signwriters' black	0 15

WHITE LEAD.

	Per 100 lb.	
Pure	4 60	4 75
No. 1	4 35	4 50
No. 2		4 30
No. 3		3 37½
No. 4		3 35
Munro's Select Flake White		4 75
Elephant and Decorators' Pure		4 75
Tiger brand, pure		5 00
Decorators' Special for exterior use		4 25
Monarch		5 00
Decorator's Pure		4 75
Essex Genuine		4 25
Sterling Pure		5 00
Island City Pure		5 00
Ramsay's Pure Lead	4 75	5 00
Ramsay's Exterior	4 50	4 75

RED LEAD.

Genuine, 560 lb. casks, per cwt	$4 50
Genuine, 100 lb. kegs, "	4 75
No. 1, 560 lb. casks, per cwt	4 25
No. 1, 100 lb. kegs, per cwt	4 75

WHITE ZINC.

Extra Red Seal	0 06	0 08
French V. M.	0 06½	0 07
Lehigh	0 06	0 06½
Pure		0 07½
No. 1		0 06½
No. 2		0 05½

DRY WHITE LEAD.

Pure, casks	4 50
Pure, kegs	4 75
No. 1, casks	4 00
No. 1, kegs	4 25

PREPARED PAINTS.

In ¼, ½ and 1-gallon tins.

Pure, per gallon	1 20
Second qualities, per gallon	1 00
Barn (in bbls.)	0 90
The Sherwin-Williams paints	1 35
Canada Paint Co.'s pure	1 25
Toronto Lead & Color Co's pure	1 25
Sanderson Pearcy's pure	1 20
Standard Co.'s "New Era."	1 30
Francis-Frost Co.'s "Ark" B'd	1 25
" British Navy deck	1 50
Henderson & Potts's "Anchor"	1 35
Ramsay's paints, Pure, per gal.	1 20
" Thistle, "	1 00
" Outside, bbls 0 55	0 65
Island City House Paint	1 25
" Floor "	1 25
Sterling House Paint	1 20
" Floor "	1 10
National	1 05

PARIS GREEN.

Petroleum, barrels, per lb.	0 13½
Arsenic, kegs	0 13½
50 and 100-lb. drums	0 14
25-lb. drums	0 14½
1-lb. paper boxes	0 15
½-lb. paper boxes	0 17

Terms—2 per cent. off 30 days, or 90 days

PUTTY.

Bulk in bbls.	1 50
Bulk in less quantity	1 80
Bladders in bbls. 1 65	1 75
Bladders in kegs, boxes or loose	1 90
25-lb. tins	1 80
12½ lb. tins	2 05
Bladders in bulk or tins less than 100 lb.	1 85

VARNISHES.

	In 5-gal. lots. Per gal.	Net.
Carriage, No. 1	1 50	1 60
Pale durable body	4 10	4 25
" rubbing	2 85	3 20
Gold size, japan	1 50	1 60
No. 1 brown japan	0 85	0 90
Elastic oak		1 50
Furniture, extra	1 10	1 25
" No. 1	0 90	1 00
Hard oil finish	1 35	1 50
Light oil finish	1 60	1 70
Damar	1 75	2 00
Shellac, white	2 40	2 50
" orange	2 30	2 40
Turpentine, brown japan	1 10	1 20
" black japan	1 10	1 20
" " No. 1.	0 85	0 90
Elastilite varnish, 1 gal. can, each		2 00
Granitine floor finish, per gal		2 75
Maple Leaf coach enamels; size 1, size 2, 70c.; size 3, 40c. each.		$1.20
Sherwin-Williams' kopal varnish, case, from to 1 gal., $2.50.		assorted

GLUE.

Common	0 08	0 08½
French medal	0 10	0 14
White, extra	0 18	0 22
Gelatine		
Strip	0 18	0 20
Coopers	0 19	0 20
Huttner		
Ground	0 12	0 16
Cologne, genuine		

HARDWARE.

AMMUNITION.

Cartridges.

B. B. Caps Dominion, 50 and 5 and 25 per cent. American $2.00 per 1000.
C. B. Caps American, $2.60 per 1000.
Rim Fire Pistol, discount 30 p.c., American.
Rim Fire Cartridges, Dominion, 50 and 5 p.c.
Central Fire, Military and Sporting, American, add 20 per cent. to list. B.B. Caps, discount 40 per cent., American.
Central Fire Pistol and Rifle, list net Amer.
Central Fire Cartridges, pistol sizes, Dominion, 30 per cent.
Central Fire Cartridges, Sporting and Military, Dominion, 15 per cent. American 10 per cent. advance on list.
Loaded and empty Shells, "Trap" and "Dominion" grades, 25 per cent. discount. American 20 per cent. discount. Rival and Nitro, 10 per cent. advance on list.
Brass Shot Shells, 55 per cent.
Primers, Dom., 30 per cent.: American, $1.75

Wads.	per lb.
Best thick brown or grey felt wads, in ½-lb. bags	$0 70
Best thick white card wads, in boxes of 500 each, 12 and smaller gauges	0 29
Best thick white card wads, in boxes of 500 each, 10 gauge	0 35
Thin card wads, in boxes of 1,000 each, 12 and smaller gauges	0 20
Thin card wads, in boxes of 1,000 each, 10 gauge	0 25
Chemically prepared black edge grey cloth wads, in boxes of 250 each—	Per M.
11 and smaller gauge	0 60
9 and 10 gauges	0 70
7 and 8 "	0 90
5 and 6 "	1 10
Superior chemically prepared pink edge, best white cloth wads, in boxes of 250 each—	
11 and smaller gauge	1 15
9 and 10 gauges	1 40
7 and 8 "	1 65
5 and 6 "	1 90

ADZES.

Discount 22½ per cent.

ANVILS.

Wright's, 80-lb. and over	0 10½
Hay Budden, 80-lb. and over	0 09½
Brook's, 80-lb. and over	0 11½

APPLE PARERS.

Woodyatt Hudson, per doz., net	4 50

AUGERS.

Gilmour's, discount 60 per cent. off list.

AXES.

Chopping Axes		
Single bit, per doz.	7 00	10 00
Double bit, "	10 00	18 00

Bench Axes, 40 per cent.
Broad Axes. 25 per cent.

Hunters' Axes	5 50	6 00
Boys' Axes	6 25	7 00
Splitting Axes	7 00	12 00
Handled Axes		10 00

AMERICAN AXE AND TOOL CO.

Red Ridge, boys', handled	75
" hunters	5 25

Underhill American Bench Axes, 40 p.c.

AXLE GREASE.

Ordinary, per gross	6 00	7 00
Best quality	10 00	12 00

BELLS.

Hand.

Brass, 60 per cent.
Nickel, 55 per cent.

Cow.

American make, discount 63⅓ per cent.
Canadian, discount 45 and 50 per cent.

Door.

Gongs, Sargant's	5 50	8 00
" Peterboro', discount 50 and 10 per cent. off new list.		

Farm.

American, each	1 35	3 00

House.

American, per lb.	0 35	0 40

BELTING.

Extra, 60 per cent.
Standard, 60 and 10 per cent.
No. 1, not wider than 6 in., 60, 10 and 10 per cent.
Agricultural, not wider than 4 in., 75 per cent.

BITS.

Auger.

Gilmour's, discount 60 per cent.
Rockford, discount 50 and 10 per cent.
Jennings' Gen., net list.

Car.

Gilmour's, 47½ per cent.

Expansive.

Clark's, 40 per cent.

Gimlet.

Clark's, per doz	0 65	0 90
Diamond, Shell, per doz.	1 00	1 50
Nail and Spike, per gross	2 25	5 20

BLIND AND BED STAPLES.

All sizes, per lb.	0 07½	0 12

BOLTS AND NUTS

Carriage Bolts, common ($1 list	Per cent.
" " ⅜ and smaller	60 and 10
" " 7-16 and up	55 and 5
" " full sq. ($2.40 list)	60
" " Norway Iron ($3 list)	60
Machine Bolts, all sizes, ⅜ and less	55
Machine Bolts, 7-16 and up	55 and 5
Plough Bolts	55 and 5
Blank Bolts	55 and 5
Bolt Ends	55 and 5
Sleigh Shoe Bolts	70
Coach Screws, cone point	70 and 5

Nuts, square, all sizes, 4c. per lb. off.
Nuts, hexagon, all sizes, 4½c. per lb. off.
Stove Rods per lb., 5½ to 6c.

BOOT CALKS.

Small and medium, ball per M.	4 25
Small heel "	4 50

BRIGHT WIRE GOODS

Discount 62½ per cent.

BUTCHERS' CLEAVERS.

German per doz.	6 00	9 00
American "	12 00	18 00

BUILDING PAPER, ETC

Tarred Felt, per 100 lb.	1 85
Ready roofing, 2-ply, not under 45 lb. per roll	0 90
Ready roofing, 3-ply, not under 65 lb., per roll	1 15
Carpet Felt per ton	45 00
Heavy Straw Sheathing per ton	35 00
Dry Sheathing per roll, 400 sq. ft.	0 40
Tar " 400 "	0 50
Dry Fibre " 400 "	0 40
Tarred Fibre " 400 "	0 50
O. K. & I. X. L. " 400 "	0 70
Resin-sized " 400 "	0 45
Oiled Sheathing " 600 "	1 00
Oiled " " 400 "	0 70
Roof Coating, in barrels per gal.	0 17
Roof " small packages "	0 25
Refined Tar per barrel	5 00
Coal Tar "	4 00
Coal Tar, less than barrels per gal.	0 15
Roofing Pitch per 100 lb.	0 90
Slater's felt per roll	0 60

BULL RINGS.

Copper, $1.30 for 2½-inch, and $1.70

BUTTS.

Wrought Brass, net revised list.

Cast Iron.

Loose Pin, discount 60 per cent

Wrought Steel.

Fast Joint, discount 70 to 70 and 5 per cent.
Loose Pin, discount 70 to 70 and 5 per cent.

CARPET STRETCHERS.

American per doz.	1 00	1 50
Bullard's "		6 50

CASTORS.

Bed, new list, discount 55 to 57½ per cent.
Plate, discount 52½ to 57½ per cent.

CATTLE LEADERS.

Nos. 32 and 33 per gross	7 50	8 50

CHALK.

Carpenters' Colored, per gross	0 45	0 75
White lump per cwt.	0 60	0 65
Red	0 05	0 06
Crayon per gross	0 14	0 18

CHISELS.

Socket, Framing and Firmer.

Broad's, discount 70 per cent.
Warnock's, discount 70 per cent.
P. S. & W. Extra, discount 60 and 10 per cent.

CLOTHES REELS.

Davis Clothes Reels, dis. 40 per cent

PLANE IRONS.

English per doz.	2 00	5 00

PLIERS AND NIPPERS.

Button's genuine, per doz. pairs, discount 37½ to 40 per cent.

Button's imitation per doz.	5 00	9 00
man "	0 60	0 60

PRESSED SPIKES.

Discount 20 per cent.

PULLEYS.

Hothouse per doz.	0 55	1 00
Axle "	0 22	0 33
Screw "	0 22	1 00
Awning "	0 35	2 50

PUMPS.

Canadian cistern	1 80	3 60
Canadian pitcher spout	1 40	2 10

EXPANSION.

Thirty years ago Mr. J. W. Paterson, the originator of this Company, commenced business in Montreal with a daily output of **TWO TONS.** To-day we operate three large Modern Factories and an equal number of Paper Mills, with a combined daily output of fully **SEVENTY-FIVE TONS.**

Promptness, Courtesy and the Superior Quality of our Building Papers,

Roofing Felts and Wire-Edged Ready-Roofing have made us successful.

The Paterson Mfg. Co., Limited

Toronto and Montreal.

CONDUCTOR PIPE.

Plain or Corrugated.

2-inch	per 100 feet		3 00
3 "	"	"	4 00
4 "	"	"	5 25
5 "	"	"	6 75
6 "	"	"	9 00

CRADLES, GRAIN.

Canadian, discount 20 to 25 per cent.

CROSSCUT SAW HANDLES.

S. & D., No. 3	per pair		0 15
S. & D., " 5	"		0 22½
S. & D., " 6	"		0 15
Boynton pattern	"		0 20

DOOR SPRINGS.

Torrey's Rod	per doz.	....	1 75
Coil, 9 to 11 in	"	0 95	1 65
English	"	2 00	4 00

DRAW KNIVES.

Coach and Wagon, discount 70 per cent. new list.
Carpenters' discount 70 per cent.

DRILLS.

Hand and Breast.

Millar's Falls, per doz., net list.

DRILL BITS.

Morse, discount 37½ to 40 per cent.
Standard, discount 50 and 5 to 55 per cent.

FAUCETS.

Common, cork-lined, discount 35 per cent.

EAVETROUGHS.

10-inch per 100 ft. 10 00

ELBOWS (stovepipe.)

5 and 6-inch, common	per doz.		1 20
7-inch	"		1 35

Polished, 15c. per dozen extra.

ESCUTCHEONS.

Discount 50 and 10 per cent., new list

ESCUTCHEON PINS.

Iron, discount 40 per cent.

FACTORY MILK CANS.

Discount off revised list, 40 per cent.

FILES AND RASPS.

Great Western	70 and 10 per cent.
Arcade	70 " 10 "
Kearney & Foot	70 " 10 "
Disston's	70 " 10 "
American	70 " 10 "
J. Barton Smith	70 " 10 "
McClellan	70 " 10 "
Eagle	70 " 10 "
Nicholson, 60 and 10 to 60, 10 and 5	"
Royal	80 "
Globe	70 to 75 "

Black Diamond, 60 and 10 to 60, 10 and 5 per cent.
Jowitt's, English list, 25 to 27½ per cent.
Nicholson File Co.'s "Simplicity" file handle, per gross 85c. to $1.50

GLASS.

Window. Box Price.

Size United Inches.	Star Per 50 ft.	Star Per 100 ft.	D. Diamond Per 50 ft.	D. Diamond Per 100 ft.
Under 26	....	3 80	....	5 06
26 to 40	....	4 00	....	5 44
41 to 50	....	4 50	....	6 56
51 to 60	....	4 75	....	7 50
61 to 70	....	5 00	....	8 62
80	....	5 30	....	9 38
85	....	....	....	10 75
86 to 90	....	....	....	12 30
91 to 95	....	....	....	15 00
96 to 100	....	....	....	18 00
96 to 100	....	....	....	18 00

GAUGES.

Marking, Mortise, Etc.

Stanley's, discount 50 to 55 per cent.

Wire Gauges.

Winn's, Nos. 26 to 33 ....each 1 65 2 40

GILLETT'S POWDERED LYE.

1-case, $3.70; 3-case, $3.60; 5-case and over, $3.50.

HALTERS.

Rope, ⅜-inch	per gross	....	9 00
Rope, ½ "	"	....	12 00
Rope, ⅝ to ¾-inch	"	....	14 00
Leather, 1-inch	per doz.	....	4 00
Leather, 1¼ "	"	....	5 20
Web	"	....	2 45

HAMMERS.

Nail.

Maydole's, discount 5 to 10 per cent. Canadian discount 25 to 27½ per cent.

Tack.

Magnetic	per doz.	1 10	1 20

Sledge.

Canadian	per lb.	0 07	0 08½

Ball Pean.

English and Canadian, per lb.		22	0 25

HANDLES.

Axe, 2nd growth, per doz. net		3 00	4 00
Store door	per doz.	1 00	1 50

Fork.

C. & B., discount 40 per cent., revised list.

Hoe.

C. & B., discount 40 per cent., revised list.

Saw.

American	per doz	1 00	1 25

Plane.

American	per gross	3 15	3 75

Hammer and Hatchet.

Canadian, discount 40 per cent.

HANGERS.

	doz.	pairs.
Steel barn door	8 00	10 00
Stearns, 4-inch	....	4 50
" 5-inch	....	6 00
Zenith	....	9 00
Lane's covered—		
No. 11, 5-foot run	....	8 40
No. 11½, 10-foot run	....	10 80
No. 12, 10-foot run	....	12 60
No. 14, 15-foot run	....	21 00
Steel, covered	4 00	11 00
" track, 1 x 3-16 in(100 ft)	....	3 75
" " 1½ x 3-16 in(100 ft)	....	4 75

HARVEST TOOLS.

Discount 60 per cent.
S. & D. lawn rakes, Dunn's, 40 off.
" sidewalk and stable scrapers, 40 off.
" Maple Leaf and Premiums saw sets, 40 off.
" saw swages, 40 off.

HATCHETS.

Canadian, discount 40 to 42½ per cent.

Shingle, Red Ridge 1, per doz		4 40
" 2, "		4 85
Barrel, Underhill		5 00

HAT ENAMEL.

Henderson & Potts' 'Anchor Brand'

HINGES.

Blind, Parker's, discount 60 per cent.

Heavy T and strap, 4-in., per lb	0 06½
" " 5-in., "	0 06½
" " 6-in., "	0 06
" " 8-in., "	0 05½
" " 10-in., "	0 05½

Light T and strap, discount 65 and 5 per cent.
Screw hook and hinge—

6 to 10 in	per 100 lb.	....	4 50
12 in. up	"	....	3 25
Spring, No. 20, per gro. pairs		....	10 80

Spring, Woodyatt pattern, per gro., No. 5, $17.50; No. 10, $18; No. 20, $10.80; No. 120, $20; No. 51, $10; No. 50, $27.50.

HOES.

Garden, Mortar, etc., discount 60 per cent.

Planter	per doz.	4 00	4 50

HOLLOW WARE

Tinned cast, 35 per cent.

HOOKS.

Cast Iron.

Bird cage	per doz.	0 50	1 10
Clothes line, No. 61	"	0 00	0 70
Harness	"	0 60	12 00
Hat and coat	per gro.	1 10	10 00
Chandelier	per doz.	0 50	1 00

Wrought Iron.

Wrought hooks and staples Canadian discount 60 per cent.

Wire.

Hat and coat, discount 60 per cent.

Belt	per 1,000	....	0 60

Screw, bright, discount 62½ per cent.

HORSE NAILS.

"P.B." Brand, 55 to 60 per cent.
'C' brand, 40, 10 and 7½ per cent. off list { Oval
M.R.M. Co. brand, 55 per cent. { head
"Monarch," 50 and 7½ per cent.
'Peerless" 50 per cent. dis.

HORSESHOES.

F.O.B. Montreal

"P.B." brand, new pattern, base	$3 50
M.R.M. Co. brand, base	3 65

Add 15c. Toronto, Hamilton, Guelph.

JAPANNED WARE.

50 per cent.

PICKS.

Star	per doz.	3 00	3 25

KETTLES.

Brass spun 7½ per cent. discount off new list.

Copper	per lb.	0 30	0 50

American, 60 and 10 to 65 and 5 per cent.

KEYS.

Lock, Canadian dis. 40 to 40 and 10 per cent.
Cabinet trunk and padlock

American	per gross	....	0 60

KNOBS.

Door, japanned and N.P., per doz		1 50	2 50
Bronze, Berlin	per doz.	2 75	3 25
Bronze, Genuine	"	6 00	9 00
Shutter, porcelain, F. & L. screw	per gross	1 30	2 00
White door knobs	per doz.	....	2 00

HAY KNIVES.

Net prices.

LAMP WICKS.

Discount, 60 per cent.

LADDERS, EXTENSION.

Waggoner Extension Ladders, dis. 40 per cent.

LANTERNS.

Cold Blast	per doz.	4 50
No. 3, "Wright's"	"	8 50
Ordinary, with O burner	"	4 00
Dashboard, cold blast	"	9 00
No. 0	"	5 75

Japanning, 50c. per doz. extra.

LEMON SQUEEZERS.

Porcelain lined	per doz.	2 20	5 60
Galvanized	"	1 87	3 85
King, wood	"	2 75	2 90
King, glass	"	4 00	4 50
All glass	"	0 50	0 90

LAWN MOWERS FOR 1905.

Woodyatt, 10½-in., 14-in. cut	$ 8 50 to	$11 00
Star, 9 -in.	" 6 00 to	6 50
Daisy, 8 -in.	" 5 25 to	5 75
Philadelphia, 7½-in.	" 6 00 to	7 50
Woodyatt, 10½-in., ball bearing	13 25 to	18 00
Grass Boxes	1 75 to	2 00
King Edw'd 12-in., 14-in. cut	9 00 to	10 00

Horse Lawn Mowers, "Special."

Discount, 50 per cent., with freight concessions in quantity shipments.

Maxwell & Sons

10½-in. high wheel	0	10 00
9-in	5 50	6 25
8-in	4 90	5 50

Discount 50 per cent.

LOCKS.

Canadian, 50 to 50 and 10 per cent.

Russell & Erwin, steel rim	...per doz.	2 25

Cabinet.

Eagle, discount 30 per cent.

Padlocks.

English and Am.	per doz.	0 50	6 00

Eagle, discount 20 to 25 per cent.

MACHINE SCREWS.

Iron and Brass.

Flat head, discount 25 per cent.
Round head, discount 20 per cent.

MALLETS.

Tinsmiths'	per doz.	1 25	1 50
Carpenters', hickory,	"	1 25	3 75
Lignum Vitae	"	3 85	5 00
Caulking, each		0 60	2 00

MATTOCKS.

Canadian	per doz.	5 50	6 00

MEAT CUTTERS.

American, discoun 3½ per cent.
German, 15 per cen
Gem ....each 1 15

MILK CAN TRIMMINGS.

Discount 25 per cent.

NAILS.

	Cut.	Wire
2d	3 40	3 25
3d	3 05	2 90
4 and 5d	2 80	2 65
6 and 7d	2 70	2 55
8 and 9d	2 55	2 40
10 and 12d	2 50	2 35
16 and 20d	2 45	2 30
30, 40, 50 and 60d (base)	2 40	2 25

F.o.b. Toronto.
Steel cut nails 10c. extra.
Miscellaneous wire nails, discount 75 per cent.
Coopers' nails, discount 30 per cent.

NAIL PULLERS.

German and American	85	2 50
No. 1	85	
No 1573	75	

NAIL SETS.

Square, round and octagon, per gross	3 38
Diamond	1 00

POULTRY NETTING.

2-in. Mesh, 19 w.g., dis. 60 per cent.
2-in. Mesh 16 w.g. 60 per cent.
Smaller than 2 in. dis. 55 per cent.

OAKUM.

U. S. Navy	per 100 lb.	....	6 75
Plumbers	"	....	3 00

OILERS.

McClary's Model galvanized oil can, with pump, 5 gallon, per dozen 10 00

Davidson oilers, discount 40 per cent.			
Zinc and tin, discount 50, 50 and 10 per cent.			
Copper	per doz.	1 25	3 50
Brass	"	1 50	3 50

Malleable, discount 25 per cent

GALVANIZED PAILS.

Dufferin pattern pails, discount 47½ per cent
Flaring pattern, discount 47½ per cent.
Galvanized washtubs, discount 47½ per cent

PIECED WARE.

Discount 40 per cent off list, June, 1899.
10-qt. flaring sap buckets, discount 40 per cent
6, 10 and 14-qt. flaring pails dis. 40 per cent.
Creamer cans, discount 40 per cent.

PICKS.

Per dozen	6 00	9 00

PICTURE NAILS.

Porcelain head	per gross	1 35	1 50
Brass head	"	0 40	1 00

PICTURE WIRE.

Tin and gilt, discount 75 per cent.

PINE TAR.

½ pint in tins	per gross	...	7 80
1 " "	"	....	9 60

PLANES.

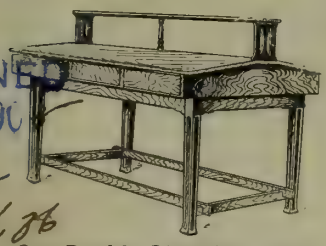
Wood bench, Canadian discount 40 per cent.
American discount 50 per cent.
Wood, fancy Canadian or American 37½ to 40 per cent

RETURNED JN 13 190

STANDING DESKS

AND EVERY OTHER KIND OF DESKS

Our line of Standing Desks are without exception the best and strongest Standing Desks in America. Big talk! You're right it is, and merited, too; give us your inspection and you'll decide likewise. Made in 5 ft., 6 ft., 7 ft., 8 ft., double and single sizes, in ¼ Oak, Plain Oak and Elm. Write for Catalogue.



Our Double Standing Desk

THE OFFICE SPECIALTY MFG. CO., LIMITED

Factories, NEWMARKET. 97-105 Wellington St. West, (near York), TORONTO

PUNCHES.

Saddler's ..... per doz.	1 00	1 85
Conductor's..... "	3 00	15 00
Finners, solid.....per set	....	0 72
" hollow.....per inch	....	1 00

RAKES.

Wood..... per doz. net 1 20 up.

RAZORS.

	per doz.	
Elliot's	4 00	18 00
Geo. Butler's & Co.'s.....	4 00	18 00
Boker's	7 50	11
" King Cutter	13 50	18 50
Wade & Butcher's.....	3 60	10 00
Carbo Magnetic.....	....	15 00
Griffon Barber's Favorite	....	10 75
Griffon No. 65.....	....	13 00
Griffon Safety Razors.....	....	13 50
Griffon Stropping Machines..	....	13 50
Lewis Bros.' "Klean Kutter"	8 50	10 50
Hindoo	10 50	14 00
Orgsteom's Swedish.....	3 50	10 00
Henckel's	7 50	20 00

Clauss, 50 and 10 per cent.
Clauss Strops, 50 and 10 per cent.

REGISTERS.

Discount 40 per cent.

RIVETS AND BURRS.

New List.

Iron Rivets, black and tinned, 60 and 10 and 10 per cent.
Iron Burrs, discount 60 and 10 and 10 p.c.
Copper Rivets, with usual proportion burrs, 45 per cent.
Copper Burrs only, discount 30 and 10 per cent.
Extras on Tinned or Coppered Rivets, ½-lb. packages 1c. per lb.; ¼-lb. packages 2c. lb.

RIVET SETS.

Canadian, discount 35 to 37½ per cent.

ROPE, ETC.

Sisal.....		0 11
Pure Manilla		0 14½
"British" Manilla.....		0 11
Cotton, 3-16 inch and larger 0 21		0 23
" 5-32 inch 0 25		0 27
" ⅛ inch 0 25		0 28
Russia Deep Sea		0 16
Jute.....		0 09
Lath Yarn, single		0 10
" double		0 10½
Sisal bed cord, 48 feet.....per doz.		0 65
" " 60 feet..... "		0 80
" " 72 feet..... "		0 95

RULES.

Boxwood, discount 70 per cent.
Ivory, discount 20 to 25 per cent.

SAD IRONS.

Mrs. Potts, No. 55, polished....per set	0 75
" No. 50, nickle-plated, "	0 80
Common, plain.....	4 50
" plated.....	5 50

SAND AND EMERY PAPER.

S. & A. sand, discount, 40 and 5 per cent
Emery, discount 40 per cent.
Garnet (Rurton's). 5 to 10 per cent. advance on list.

SAP SPOUTS.

Bronzed iron with hooks ....per 1,000 7 50
"Eureka" tinned steel, hooks " 8 00

SAWS.

Hand, Disston's, discount 12½ per cent
S. & D., discount 40 per cent.
Crosscut, Disston's....per foot 035 0 55
S. & D., discount 35 per cent. on Nos. 2 and 3.
Hack, complete.....each 0 75 2 75
" frame only.....each 0 50 1 25
S. & D. solid tooth circular shingle, concave and band, discount 50 per cent.
" mill and ice, drag, discount 30 per cent
" cross-cut, discount 35 per cent.
" hand saws, butcher, disc't 40 per cent
" compass, pruning and back, discount 45 per cent.
" buck, New Century.....$6 25
" " No. 1 Maple Leaf..... 5 25
" " Happy Medium..... 4 25
" " Watch Spring..... 4 25
" " common frame. 4 00

SASH WEIGHTS.

Sectional.....per 100 lb.	2 00	2 25
Solid ..... "	1 50	1 75

SASH CORD.

Per lb..... 0 28 0 30

SAW SETS. per doz.

Lincoln and Whiting	4 75
Hand Sets, Perfect	4 00
X-Cut Sets, "	7 50

SCALES.

Gurney Standard, 40 per cent.
Gurney Champion, 50 per cent.
Burrow, Stewart & Milne—
Imperial Standard, discount 40 per cent.
Weigh Beams, discount 35 per cent.
Champion Scales, discount 50 per cent.
Fairbanks standard, discount 35 per cent.
" Dominion, discount 55 per cent.
" Richelieu, discount 55 per cent.
Warren's new Standard, discount 40 per cent.
" " Champion, discount 50 per cent.
" Weighbeams, discount 35 per cent.

SCREW DRIVERS.

Sargent's .....per doz. 0 65 1 00

SCREEN DOORS.

Common doors, 2 or 3 panel, walnut stained, 4-in. style.....per doz. 6 50
Common doors, 2 or 3 panel, yellow and green stained, 4-in. style....per doz. 6 75
Common doors, 2 or 3 panel, in natural colors, oil finish .....per doz. 8 75
3-in. style 20c. per dozen less.

SCREWS.

Wood, F. H., bright and steel, discount 87½ per cent.
Wood, R. H., bright, dis. 82½ per cent.
" F. H., brass, dis. 80 per cent.
" R. H., " dis. 75 per cent.
" F. H., bronze, dis. 75 per cent.
" R. H., " dis. 70 per cent.
Drive Screws, dis. 87½ per cent.

Bench, wood .....per doz.	3 25	4 00
" iron ..... "	4 25	5 00

Set, case hardened, dis. 60 per cent.
Square Cap, dis. 50 and 5 per cent.
Hexagon Cap, dis. 45 per cent.

SCYTHES.

Per doz. net..... 6 00 9 00

SCYTHE SNATHS.

Canadian, discount 40 per cent.

SHEARS.

Clauss, nickel, discount 80 per cent.
Clauss, Japan, discount 67½ per cent.
Clauss, tailors, discount 40 per cent.
Seymour's, discount 50 and 10 per cent.

SHOVELS AND SPADES.

Canadian, discount 45 per cent.

SINKS.

Cast iron, 16 x 24.....	0 85
" 18 x 30.....	1 00
" 18 x 36.....	1 40

SNAPS.

Harness, German, discount 25 per cent.
Lock, Andrews'..... 4 50 11 50

SOLDERING IRONS.

1, 1½-lb..... per lb.	0 37
2-lb. or over ..... "	0 34

SQUARES.

Iron, No. 492 .....per doz.	1 90	2 25
" No. 493 ..... "	2 40	2 55
" No. 494 ..... "	3 25	3 40

Steel, discount 60 and 5 to 65 per cent.
Try and Bevel, discount 50 to 52½ per cent.

STAMPED WARE.

Plain, discount 75 and 12½ per cent. off revised list.
Retinned, discount 75 per cent. off revised list

STAPLES.

Galvanized	....	3 00
Plain	....	2 80

Coopers', discount 45 per cent.
Poultry netting staples, discount 40 per cent.

STOCKS AND DIES.

American discount 25 per cent.

STONE.

Washita.....per lb.	0 28	0 60
Hindostan ..... "	0 06	0 07
" slip ..... "	0 09	0 09
Labrador..... "	....	0 13
" Axe..... "	....	0 15
Turkey ..... "	....	0 50
Arkansas..... "	....	1 50
Water-of-Ayr ..... "	....	0 10
Scythe .....per gross	3 50	5 00
Grind, 40 to 200 lb., per ton....	....	25 00
" under 40 lb., "	....	28 00
" 200 lb. and over	....	31 00

STOVEPIPES.

5 and 6 inch, per 100 lengths	....	7 00
7 inch..... " "	....	7 50

TACKS, BRADS, ETC.

Carpet tacks, blued	80 and 5
" " tinned.....	80 and 20
" " (in kegs).....	40
Cut tacks, blued, in dozens only	80
" ¼ weights	60
Swedes cut tacks, blued and tinned—	
In bulk.....	80 and 10
In dozens	75
Swedes, upholsterers', bulk....85, 12½ and 12½	
" brush, blued and tinned bulk	70
Swedes, gimp, blued, tinned and japanned.....	75 and 12½
Zinc tacks	35
Leather carpet tacks.....	55
Copper tacks.....	50
Copper nails	52½
Trunk nails, black	65 and 5
Trunk nails, tinned.....	65 and 10
Clout nails, blued	65 and 5
Chair nails.....	35
Patent brads.....	40
Fine finishing.....	40
Lining tacks, in papers.....	10
" " in bulk.....	15
" " solid heads, in bulk	75
Saddle nails, in papers.....	10
" " in bulk.....	15
Tufting buttons, 22 line, in dozens only	60
Zinc glaziers' points	5
Double pointed tacks, papers..	90 and 10
" " bulk....	40
Clinch and duck rivets.....	45

TAPE LINES.

English, ass skin.....per doz.	2 75	5 00
English, Patent Leather	5 50	9 75
Chesterman's .....each	0 90	2 85
" steel.....each	0 80	8 00

TINNERS' SNIPS.

Per doz.....	3 00	15 00

Clauss, discount 35 per cent.

THERMOMETERS.

Tin case and dairy, 75 to 75 and 10 per cent.

TRAPS (steel.)

Game, Newhouse, discount 25 per cent.
Game, H. & N., P. S. & W., 45 and 5 per cent.
Game, steel, 60 and 5 per cent.

TROWELS.

Disston's, discount 10 per cent.

German.....per doz.	4 75	6 00

S. & D., discount 35 per cent.

TWINES.

Bag, Russian .....per lb.	....	0 27
Wrapping, cotton, 3-ply	....	0 24
" " 4-ply	....	0 27
Mattress .....per lb.	0 33	0 45
Staging..... "	0 27	0 35

VISES.

Wright's.....	....	0 13½
Brook's.....	....	0 12½
Pipe Vise, Hinge, No. 1.....	....	3 50
" " No. 2.....	....	5 50
Saw Vise	4 50	9 00

Columbia Hardware Co.
Blacksmiths' (discount) 60 per cent.
" parallel (discount) 45 per cent

ENAMELLED WARE.

White, Princess, Turquoise, Blue and White discount 50 per cent.....
Diamond, Famous, Premier, discount 50 and 10 per cent.....
Granite or Pearl, Imperial, Crescent, discount 50, 10 and 10 per cent.
Premier steel ware, 40 per cent.
"Star" decorated steel and decorated whit 25 per cent.

WIRE.

Smooth Steel Wire.

No. 0-9 gauge.....		$2 15
10 "	6c.	extra.
11 "	12c.	"
12 "	20c.	"
13 "	30c.	"
14 "	40c	"
15 "	55c.	"
16 "	70c.	"

Add 60c. for coppering and $2 for tinning.
Extra net per 100 lb.—Oiled wire 10c. spring wire $1.25, special hay baling wire 30c. best steel wire 75c., bright soft drawn 15c., charcoal (extra quality) $1.25, packed in casks or cases 15c., bagging and papering 10c., 50 and 100-lb. bundles 10c., in 25-lb. bundles 15c., in 5 and 10-lb. bundles 25c., in 1-lb. hanks, 50c., in ½-lb. hanks 75c., in ¼-lb. hanks $1.
Fine Steel Wire, discount 27½ per cent. List of extras: In 100-lb. lots: No. 17, $5—No. 18, $5.50—No. 19, $6—No. 20, $6.65—No. 21, $7—No. 22, $7.30—No 23, $7,65—No. 24, $8—No. 25, $9—No. 26, $9.50—No. 27, $10—No. 28, $11—No. 29, $12—No. 30, $13—No.31, $14—No. 32, $15—No. 33, $16—No. 34, $17. Extras net—tinned wire, Nos. 17-25, $2—Nos. 26-31, $4—Nos. 32-34, $6. Coppered, 5c.—oiling, 10c.—in 25-lb. bundles, 15c.—in 5 and 10-lb. bundles, 25c.—in 1-lb. hanks, 25c.—in ½-lb. hanks, 38c.—in ¼-lb. hanks, 50c.—packed in casks or cases, 15c.—bagging or papering, 10c.
Brass wire, discount 60 per cent. off the list.
Copper wire, discount 60 per cent. net cash 30 days, f.o.b factory.
Galvanized wire, per 100 lb.—Nos. 4 and 5, $3.70 to $3.70—Nos. 6, 7, 8, $3.15 to $3.15—No. 9, $2.55 — No. 10, $3.20 to $3.20—No. 11, $3.25 to $3.25 — No. 12, $2.65—No. 13, $2.75—No. 14. $3.75 to $3.75—No 15, $4.30—No. 16. $4.30. Base sizes, Nos. 6 to 9, $2.37½ f.o.b. Cleveland. In carlots 12½c. less.
Clothes Line Wire, 7 wire solid line, No. 17. $4.90; No. 18, $3.00; No. 19, 2.70; 6 wire solid line, No. 17, $4.45; No. 18, $2.80; No. 19, $2.50. All prices per 1000 ft. measure. F.o.b. Hamilton, Toronto, Montreal.

WIRE FENCING.

Galvanized barb.....	2 50	2 75
Galvanized, plain twist	2 50	2 75

Galvanized barb, f.o.b. Cleveland, $2 30 fo small lots and $2 20 for carlots.

COILED SPRING WIRE.

HighCarbon, No. 9.....	$2 70
" No. 11	3 35
" No. 12	2 95

WIRE CLOTH.

Painted Screen, per 100 sq. ft., net.. 1 50
Terms, 2 per cent. off 30 days.

WASHING MACHINES.

Round, re-acting per doz.	56 00
Square "	59 00
Eclipse, per doz	48 00
Dowswell "	36 00
New Century, per doz	72 00
Connor Improved.....	33 00
Daisy.....	48 00

WRINGERS.

Leader, 11 in.....per doz.	32 00
Royal Canadian, 11 in. "	29 00
Royal American, 11 in. "	29 00

Terms, 3 months, 2 per cent. 30 days.

WROUGHT IRON WASHERS.

Canadian make, discount 40 per cent.

"ENTERPRISE"

A SEASONABLE SHOWING



Cherry Stoner, No. 1, $7.50 doz.


Lawn Sprinkler, No. 1, $3.50



Fruit, Wine and Jelly Press, No. 34, $3.00



Food Chopper, No. 50, $1.25

AT this season, women (and their husbands), have it on their minds to buy a Cherry Stoner, or Lawn Sprinkler, or Fruit Press, or Food Chopper. They know all about "Enterprise" goods, and you will make many a sale that would otherwise be lost if you

SHOW THEM

Two Questions: Are you having good sales of the new size, No. 50 Enterprise Food Chopper? It Chops 1½ lbs. of meat a minute and retails for $1.25. Have you got our 1905 catalogue handy for reference? If not, drop a postal for another.

New York Branch
10 Warren St.

THE ENTERPRISE MFG. CO. OF PA.
PHILADELPHIA, U.S.A.

San Francisco Branch
104 Front St.

INDEX TO ADVERTISERS.

A

Accountants and Auditors 69
Acme Can Works 11
Acme Lathe & Products Co 45
American Shearer Mfg. Co 23
American Steel and Wire Co 4
Anglo-Canadian Supply Co 56
Atkins, E. C., & Co 59
Armstrong Bros 51
Atlas Mfg. Co 64

B

Barnett, G. & H., Co ....outside back cover
Bartlett, Wm., & Son 61
Bayliss, Jones & Bayliss 1
Bell Telephone Co 66
Birkett, Thos., & Son Co. 1
Bolton, Fane & Co 22
Boss Machine Co 10
Bosson Bros 64
Bradstreet's 76
Brantford Cordage Co ... inside back cover
British America Assurance Co 67

C

Canada Brass Rolling Mills 31
Canada Foundry Co 55
Canada Iron Furnace Co 41
Canada Metal Co 29
Canada Paint Co 52
Canada Paper Co 23
Canadian Bank of Commerce 67
Canadian Fairbanks Co 29
Canadian Heating & Ventilating Co ... 57
Canadian Rubber Co 14
Canadian Sewer Pipe Co 64
Canadian Steel and Wire Co 4
Clauss Shear Co 71
Concrete Block Machine Co 64
Confederation Life Association 67
Connor, J. H., & Sons 22
Consolidated Plate Glass Co 45
Consumers' Cordage Co 13
Covert Mfg. Co 53
Cutts, C. M. & Co 61

D

Davidson, Thos., Mfg. Co 2
Dennis Wire and Iron Co 61
Deseronto Iron Co 41
Dods, P. D., & Co 51
Dominion Belting Co 12
Dorken Bros. .....outside front cover, 30
Dover Mfg. Co 38, 39
Downsell Mfg. Co 53
Drummond, McCall & Co 8

E

Educational Dept 69
Enterprise Mfg. Co 74
Enterprise Mfg. Co., of Akron, Ohio ... 76
Erie Specialty Co 76

F

Fabien, C. P 53
Falkiner, H. F 56
Ferrosteel Co 27
Frothingham & Workman 11

G

Gelinas, Fred 55
Gibb, Alexander 28
Gies, Philip 23
Gilbertson, W., & Co 55
Glauber Brass Co 23
Great West Wire Fence Co 45
Greening, B., Wire Co 9
Grey & Bruce Portland Cement Co 60
Grove Chemical Co 51
Gurney Foundry Co 31, 57
Gurney, Tilden Co 59
Gutta Percha and Rubber Mfg. Co ....
outside back cover

H

Ham & Nott 6
Hamilton Cotton Co 6
Hamilton Rifle Co 30
Hankin, F 55
Hanover Portland Cement Co 60
Hart & Cooley Co 27
Heinisch, R., Sons Co 12
Henderson, J. A 51
Henderson & Potts Co 50
Herm, Weissenburger & Co 51
Hobbs Hardware Co 5
Hobbs Mfg. Co 63
Hotel Directory 66
Howland, H. S., Sons & Co 19
Hyde, F. & Co 41

I

Imperial Varnish and Color Co 48
Ironside, Son & Co 53

J

Jackson, C. F., & Co 41
Jamieson, R. C., & Co 49
Jardine, A. B., & Co 23
Jenking, A. C 60
Johnson's, Iver, Arms and Cycle Works 18
Johnston, Rd., Clapham & Morris. 8

K

Kemp Mfg. Co 14
Kennedy Hardware Co 32
Kerr Engine Co 22
Kohler, F. E., & Co 55

L

Legal Cards 69
Leslie, A. C., & Co 41
Lewis Bros. & Co. 3
Lewis, Rice, & So ..... inside front cover
Lockerby & McComb 59
London Rolling Mill Co. .inside back cover
Loughead, J. S., & Son 55
Lucas, John & Co 47
Lufkin Rule Co .....inside back cover
Lysaght, John. .....outside front cover

M

Mackay, J. M 67
Mackenzie Bros 45
Maple Leaf Harvest Tool Co 7
Mast, J. M., Mfg. Co 12
Maxwell, D., & Sons 8
Metallic Roofing Co 43
Metropolitan Bank 67
Metropolitan Business College 69
Morton, B. K., & Co 41
Morrison, James, Brass Mfg. Co 20
Morrow, John, Machine Screw Co 45
Munderloh & Co 26

Mc

McArthur, Alex., & Co 70
McCaskill, Dougall & Co 51
McClary Mfg. Co 36
McDougall, R., Co 41
McGregor-Banwell Fence Co 28

N

Naturo Co 25
Newman, W., & Sons 60
North Bros. Mfg. Co 1
North West Machinery & Iron Co 28
Nova Scotia Steel and Coal Co 41

O

Oakey, John, & Sons 56
Office Specialty Mfg. Co 73
Oneida Community 4
Ontario Lantern and Lamp Co 55
Ontario Tack Co 16
Ontario Wind Engine and Pump Co .. 61
O-So-Ezy Mfg. Co 60
Owen Sound Wire Fence Co 9

P

Page-Hersey Iron and Tube Co 23
Paterson Mfg. Co 72
Pearce, Frank, & Co 28
Peck Rolling Mills 32
Pedlar People 60, 65
Penberthy Injector Co 25
Phillips, Chas. D 60

R

Ramsay, A., & Son Co 12, 25
Ross, J. A 12
Round, John, & Son 10
Royal Paper Mills Co ....inside back cover
Russell & Erwin Mfg. Co 11

S

Sadler & Haworth .....outside back cover
Samuel, M. & L., Benjamin, & Co 2
Sanderson-Harold Co 31
Scott, Greenwood & Co 51
Seymour, Henry T., Shear Co 12
Sharratt & Newth 12
Shaw, A., & Son 12
Sherwin-Williams Co 17
Silica Barytic Stone Co 64
Skedden Brush Co 49
Smart, Jas., Mfg. Co 6
Smith & Hemenway Co 23
Solarine Metal Polish 56
Standard Ideal Sanitary Co 20
Standard Paint and Varnish Works ... 51
Stanley Works 63
Stauntons Limited 49
Steel Trough and Machine Co 61
Stephens, G. F., & Co 44
St. Margaret's College 69

T

Tarbox Bros 53
Taylor-Forbes Co ..... outside front cover
Thompson, B. & S. H., Co .....
outside back cover
Thorné, R. E 28
Turnbull & Henderson 28

U

United Brass Mfg. Co 47
United States Register Co 27
United Typewriter Co 69
Utica Drop Forge and Tool Co 23

V

Voss Bros. Mfg. Co 9

W

Walker Steel Range Co 57
Wallace Barnes Co 23
Walter, E. F., & Co 4
Warnock, James, & Co 61
Weese, G. A., & Son 67
Welsh Tinplate & Metal Stamping Co .. 26
Western Assurance Co 67
Western Wire Nail Co 12
Wilcox Mfg. Co 6
Wilkinson Sword Co 76
Winnipeg Paint and Glass Co 45
Wright, E. T., & Co 56

CLASSIFIED LIST OF ADVERTISEMENTS.

Aluminum Castings.
Canadian Aluminum Works Montreal.

Anvils
Taylor-Forbes Co., Guelph, Ont.

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Hobbs Mfg. Co., London, Ont.

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The Locators, Winnipeg.

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Warnock, James, Galt, Ont.

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Munderloh & Co., Montreal.

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London Fence Machine Co., London.

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Grose, Walter, Montreal.

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Smith & Hemenway Co., New York.

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Auer Light Co., Montreal.

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Sharratt & Newth, London, Eng.
Shaw, A., & Son, London, Eng.

Glue.
Grove Chemical Co., Lancashire, Eng.

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Erie Specialty Co., Erie, Pa.
Gurney, Tilden Co., Hamilton, Ont.
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Penberthy Injector Co., Windsor, Ont.

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McDougall, R., Co., Galt, Ont.

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Waggoner Ladder Co., London, Ont.

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North West Machinery and Iron Co., Winnipeg, Man.
Pearce, Frank, & Co., Liverpool, Eng.
Thorne, R. E., Montreal and Toronto.
Turnbull & Henderson, Vancouver, B.C.

Metals.
Bolton, Fane & Co., London, Eng.
Booth Copper Co., Toronto.
Canada Iron Furnace Co., Midland, Ont.
Canada Metal Co., Toronto.
Deseronto Iron Co., Deseronto, Ont.
Gibb, Alexander, Montreal.
Gilbertson, W., Pontardawe, Wales.
Hankin, F., Montreal.
Henderson, J. A., Montreal.
Ironside, Son & Co., London, Eng.
Jackson, C. F., & Co., Vancouver, B.C.
Johnston, Rd., Clapham & Morris, Manchester, Eng.
Kemp Mfg. Co., Toronto.
Leslie, A. C., & Co., Montreal.
Lewis, Samuel, & Co., Dudley, Eng.
London Rolling Mills Co., London, Ont.
Lysaght, John, Bristol, Eng.
Montreal Rolling Mills Co., Montreal.
Morton, B. K., & Co., Sheffield, Eng.
Nova Scotia Steel and Coal Co., New Glasgow, N.S.
Peck Rolling Mills Co., Montreal.
Samuel, Benjamin & Co., Toronto.
Saunders, Franklin & Co., Montreal.
Thompson, B. & S. H. & Co., Montreal.

Metal Lath.
Metallic Roofing Co., Toronto.
Pedlar People, Oshawa, Ont.

Metal Polish, Emery Cloth, etc.
Anglo-Canadian Supply Co., Toronto.
Solarine Company, Chicago.
Oakey, John, & Sons, London, Eng.

Milk Cans and Trimmings.
Davidson, Thos., Mfg. Co., Montreal.
Kemp Mfg. Co., Toronto.
McClary Mfg. Co., London, Ont.
Wright, E. T., & Co., Hamilton, Ont.

Mops.
Tarbox Bros., Toronto.

Nails and Spikes.
Montreal Rolling Mills Co., Montreal.
Ontario Tack Co., Hamilton, Ont.
Peck Rolling Mills Co., Montreal.

Office Furniture.
Office Specialty Mfg. Co., Toronto.

Paints, Oils and Glass.
Berry Bros., Detroit and Walkerville.
Canada Paint Co., Montreal.
Consolidated Plate Glass Co., Toronto.
Dods, P. D., & Co., Montreal.
Henderson & Potts Co., Montreal.
Hobbs Mfg. Co., London, Ont.
Imperial Varnish and Color Co., Toronto.
Jamieson, R. C., & Co., Montreal.
Lewis, Rice & Son, Toronto.
Lucas, John, & Co., Philadelphia, Pa.
Luxfer Prism Co., Toronto.
McArthur, Corneille & Co., Montreal.
McCaskill, Dougall & Co., Montreal.
Montreal Rolling Mills Co., Montreal.
O-So-Ezy Mfg. Co., Montreal.
Queen City Oil Co., Toronto.
Ramsay & Son, Montreal.
Sherwin-Williams Co., Montreal.
Standard Paint and Varnish Works, Windsor, Ont.
St. George, H. E., London Ont.
White Lead Association of Canada, Montreal.
Winnipeg Paint and Glass Co., Winnipeg

Perforated Sheet Metals.
Greening, B., Wire Co., Hamilton.

Plumbers' Tools and Supplies.
Canada Brass Rolling Mill, Toronto.
Canadian Fairbanks Co., Montreal.
Glauber Brass Co., Cleveland, Ohio.
Gies, Philip, Berlin, Ont.
Gurney Foundry Co., Toronto.
Jardine, A. B., & Co , Hespeler, Ont.
Jenkins Bros., Boston, Mass.
Mechanics' Supply Co., Quebec.
Morrison, Jas., Brass Mfg. Co., Toronto.
Naturo Co., Salem, N.J.
Page-Hersey Iron & Tube Co., Guelph.
Standard Ideal Sanitary Co., Port Hope,
Utica Drop Forge & Tool Co., New York.

Portland Cement.
Canadian Portland Cement Co., Toronto
Grey & Bruce Portland Cement Co., Owen Sound.
Hanover Portland Cement Co., Hanover, Ont.
Hyde, F., & Co., Montreal.
Thompson, B. & S. H. & Co., Montreal.

Pottery.
Foster Pottery Co., Hamilton, Ont.

Poultry Netting.
Greening, B., wire Co., Hamilton, Ont.
Page Wire Fence Co., Walkerville, Ont.

Refrigerators.
Davidson, Thos., Mfg. Co., Montreal.
Fabien, C. P., Montreal
Ham & Nott Co., Brantford, Ont.
Sanderson-Harold Co., Paris, Ont.

Registers.
Ferrosteel Co., Cleveland, Ohio.
Hart & Cooley Co., New Britain, Conn.
United States Register Co., Battle Creek, Mich.

Roofing Supplies.
Jenking, A. C., & Co., Montreal.
McArthur, Alex., & Co., Montreal.
Metal Shingle & Siding Co., Preston, Ont.
Metallic Roofing Co., Toronto.
Paterson Mfg. Co., Toronto & Montreal.
Pedlar People, Oshawa.
Taylor-Forbes Co., Guelph, Ont.

Sad Irons.
Dover Mfg. Co., Canal Dover, Ohio.

Saws.
Atkins, E. C., & Co., Indianapolis, Ind
Disston, Henry, & Sons, Philadelphia, Pa.
Shurly & Dietrich, Galt, Ont.

Scales.
Canadian Fairbanks Co., Montreal.
New Warren Scale Co., Montreal.

Screen Doors and Windows.
Sanderson-Harold Co., Paris, Ont.

Screws, Nuts, Bolts.
Acme Lathe Products Co., Manchester
Bayliss, Jones & Bayliss, Wolverham ton, Eng.
Canada Foundry Co., Toronto.
Montreal Rolling Mills Co., Montreal.
Morrow, John, Machine Screw Co. Ingersoll, Ont.

Sewer Pipes.
Canadian Sewer Pipe Co., Hamilton
Hyde, F., & Co., Montreal.

Shelf Boxes.
Bennett Mfg. Co., Pickering, Ont.

Shelf Brackets.
Atlas Mfg. Co., New Haven, Conn

Silverware.
Toronto Silver Plate Co., Toronto.
Round, John, & Son, Sheffield, Eng.

Skates.
Canada Cycle & Motor Co., Toronto.

Stable Fixtures.
Greening, B., Wire Co., Hamilton, Ont.
Oneida Community Co., Niagara Falls Ont.

Steel Rails.
Algoma Steel Co—Drummond, McCall & Co., Agents, Montreal.
Jackson, C. F., & Co., Vancouver, B.C.
Morton, B. K., & Co., Sheffield, Eng.
Nova Scotia Steel & Coal Co., New Glasgow, N.S.

Storage Warehouse.
Mackenzie Bros., Winnipeg.

Store Lighting.
Auer Light Co., Montreal.

Stoves and Tinware, Radiators, Furnaces, etc.
Canadian Heating & Ventilating Co. Owen Sound.
Davidson, Thos., Mfg. Co., Montreal.
Gies, P., Berlin, Ont.
Gurney Foundry Co., Toronto.
Kemp Mnfg. Co., Toronto.
McClary Mfg. Co., London.
Ross, J. A., Winnipeg, Man.
Smart, Jas. Mfg. Co., Brookville, Ont.
Telephone City Stoves, Brantford, Ont.
Walker Steel Range Co., Grimsby, Ont.
Wright, E. T., & Co., Hamilton.

Tacks.
Ontario Tack Co., Hamilton.
Peck Rolling Mills Co., Montreal.

Traps.
Mast, J. M., Mfg. Co., Lititz, Pa.

Troughs—Hog.
Steel Trough and Machine Co., Tweed, Ont

Typewriters and Supplies.
United Typewriter Co., Montreal.

Wall Paper.
Stauntons Limited, Toronto.

Washing Machines, etc
Boss Washing Machine Co., Cincinnati, O.
Connor, J. H., & Son, Ottawa.
Dowswell Mfg. Co., Hamilton, Ont.
Taylor Forbes Co., Guelph, Ont.
Voss Bros. Mfg. Co., Davenport, Iowa.

Wholesale Hardware.
Birkett, Thos., & Sons Co., Ottawa.
Frothingham & Workman, Montreal.
Howland, H. S., Sons & Co., Toronto.
Kennedy Hardware Co., Toronto.
Lewis Bros. & Co., Montreal.
Lewis, Rice, & Son, Toronto.

Window and Sidewalk Prisms.
Hobbs Mfg. Co., London, Ont.
Luxfer Prism Co., Toronto.

Wire Springs.
Henderson, J. A., Montreal.
Wallace-Barnes Co., Bristol, Conn.

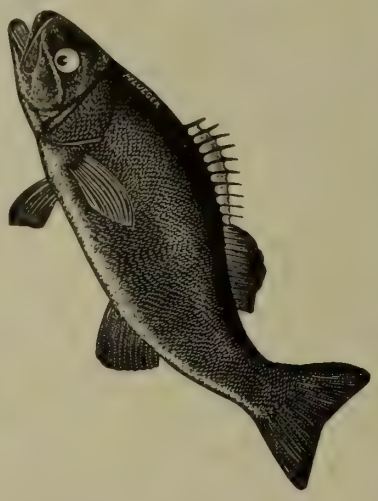
Wire, Wire Rope, Cow Ties, Fencing Tools, etc.
American Steel and Wire Co., New York, Montreal, Chicago.
Bayliss, Jones & Bayliss, Wolverhamton, Eng.
Canadian Steel & Wire Co., Hamilton.
Dennis Wire and Iron Co., London, Ont.
Dominion Wire Mnfg. Co., Montreal
Great West Wire Fence Co., Winnipeg.
Greening, B., Wire Co., Hamilton.
Ironside, Son & Co., London, Eng.
McGregor - Banwell Fence Co., Walkerville, Ont.
Montreal Rolling Mills Co., Montreal.
Oneida Community, Niagara Falls.
Owen Sound Wire Fence Co., Owen Sound
Page Wire Fence Co., Walkerville, Ont.
Walter, E. F. & Co., Montreal.
Western Wire & Nail Co., London, Ont.
Wilcox Mfg. Co., London, Ont.

Woodenware.
Bennet Mfg. Co., Pickering, Ont.
Taylor-Forbes Co., Guelph, Ont.
United Factories, Toronto.
Waggoner Ladder Co., London, Ont.

Wrapping Papers.
Canada Paper Co., Toronto.
McArthur, Alex., & Co., Montreal.
Royal Paper Mills Co., East Angus, Que.

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Fishing Tackle

Hooks, Flies, Trolls, Spinners, Phantoms, Reels, Furnished Lines. Everything in Fishing Tackle.



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AKRON, Ohio

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By Royal Warrant Sword Cutlers to H.R.H. THE PRINCE OF WALES

WILKINSON SWORD CO., LTD.

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SHAVERS

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CUTLERY

SCISSORS

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SEVERAL OTHER STYLES ILLUSTRATED IN OUR NEW CATALOGUE

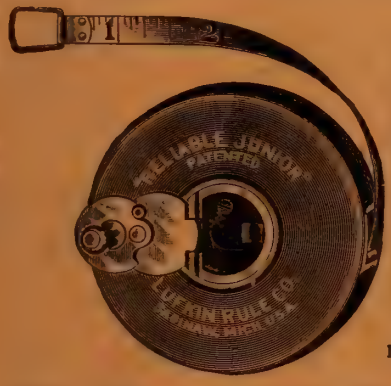
MADE OF CRUCIBLE STEEL. OIL TEMPERED. ANTI-RUST. NICKEL PLATED.
WILL NOT BEND, BREAK OR RUST. EACH ONE TESTED AND GUARANTEED.

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IRON STEEL

Bars in Flats, Rounds, Squares, Ovals, Half-Ovals, Half-Rounds and Bands. Also Wrought Washers.
GOOD QUALITY. PROMPT SHIPMENT.

London Rolling Mill Co.
Limited,
LONDON, CANADA.



LUFKIN MEASURING TAPES

Steel, Metallic, Linen, Pocket, Ass Skin, Pat. Leather, Bend Leather, Etc.

ARE THE BEST AND MOST POPULAR TAPES IN THE WORLD.
YOUR STOCK IS NOT COMPLETE WITHOUT THEM.

LUFKIN RULE CO., Saginaw, Mich, U.S.A.

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For sale by ALL PROMINENT CANADIAN HARDWARE JOBBERS.

THEY ARE GROWING:

—The capacity of our factory and its annual output ;
—Our list of customers, and the volume of our sales ;
—The popularity of our goods (and that is our great satisfaction)

BECAUSE

The 4 Maple Leaf Brands of Binder Twine

Have proven themselves to be



TRADE MARK
(Registered)

Best for the FARMER to buy to USE,
therefore
Best for the DEALER to buy to SELL.



BINDER TWINE.

GILT EDGE, 650 ft. Pure Manila
GOLD LEAF, 600 ft. Manila
SILVER LEAF, 550 ft. Standard Manila
MAPLE LEAF, 500 ft. Standard

Write for Samples and Prices.

The Brantford Cordage Company
BRANTFORD, CANADA. Limited

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WE ARE MANUFACTURERS OF

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Our Specialties are

Fibres, Glazed Hardware and No. 1 Manilla.

ROYAL PAPER MILLS CO.,

EAST ANGUS, QUE.

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Black Diamond File Works

G. & H. Barnett Company

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Twelve Medals

Awarded

By **JURORS** at

International Expositions

Special Prize

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Copy of catalogue sent free to any interested file user upon application.

WALTER GROSE, Montreal, SELLING AGENT FOR THE DOMINION.

The Fisk

Detachable Motor Tire



Notice these improvements over other mechanically-fastened tires :

The solid base, which forms a firm, flat surface to travel on when the tire is empty. It prevents injury to the tire when it is run flat and adds to its safety in case of puncture.

The circular air-chamber, which keeps the inner tube from pinching or buckling.

The simple method of attachment, by which the tire can be removed or replaced with an ordinary wrench, quickly and easily.

Manufactured in Canada solely by

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GALVANIZED SHEETS

Their easy working qualities, toughness, perfect coating and extremely long life are now so well known that most metal workers and many property owners, too, specify exclusively "Apollo" when they want their work to last and give perfect satisfaction.

"Apollo" Galvanized Sheets prove their superiority at every bend.

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"Extra" *"Standard"*

HIGH-CLASS

SPECIALISTS
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Leather Belting

Talk it over with us when needing Belting.

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CIRCULATES EVERYWHERE IN CANADA
Also in Great Britain, United States, West Indies, South Africa and Australia.

HARDWARE AND METAL

A Weekly Newspaper devoted to the Hardware, Metal, Heating and Plumbing Trades in Canada.

VOL. XVII. MONTREAL AND TORONTO, JUNE 17, 1905 NO. 24

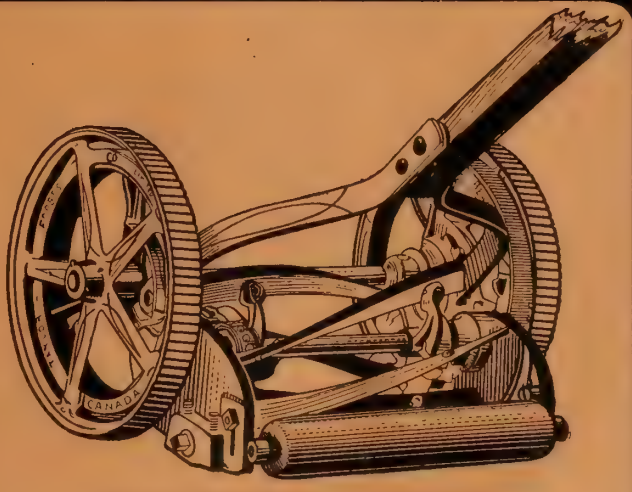
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"PEPPERCORN AND DIAMOND"
BRAND CUTLERY.
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BUTCHERS' STEELS
Canadian Agents: DORKEN BROS. & CO., Montreal

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Dead Flat Sheets for ***Ranges*** and ***Furnaces.*** Every sheet guaranteed.
JOHN LYSAGHT, Limited, Makers, BRISTOL, ENG.
A. C. LESLIE & CO., MONTREAL Managers Canadian Branch

"Empress" Superiority

THE "EMPRESS" BALL-BEARING MOWER

is the only ball-bearing mower made in Canada. It is a 5-blade lawn mower, and the side plates are put on with set-screws so that they can be taken off easily in case of necessity ; the balls are caged and are set in steel cups. This machine is as easily taken apart as a bicycle, and the adjustment is taken up from the ends with two small set-screws. Every part of the **"EMPRESS"** is made from the best steel produced in Great Britain. We can ship promptly. Write for Catalogue "C."



The "Empress"—Ball-Bearing.

Taylor-Forbes Company

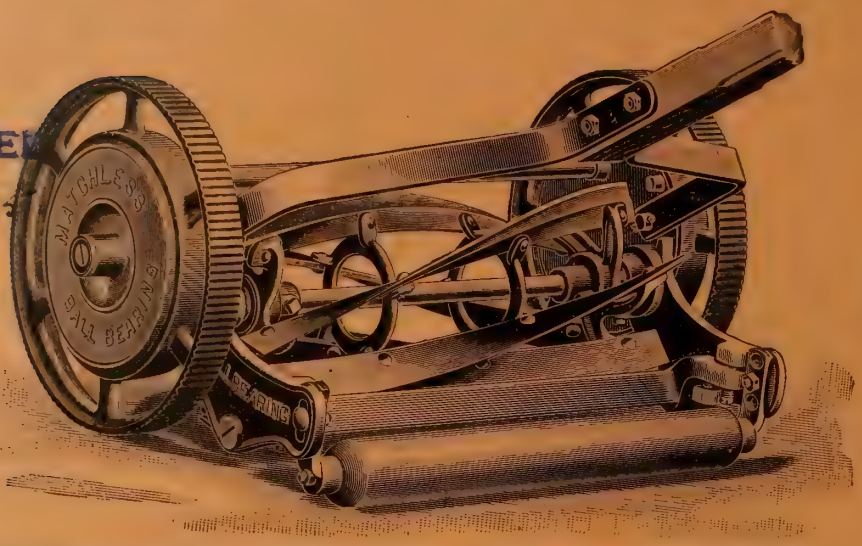
Montreal Branch :
9 De Bresoles St.

The Largest Manufacturers of Hardware in Canada.

LIMITED.
GUELPH, CANADA

Classified List of Advertisements on Page 67.

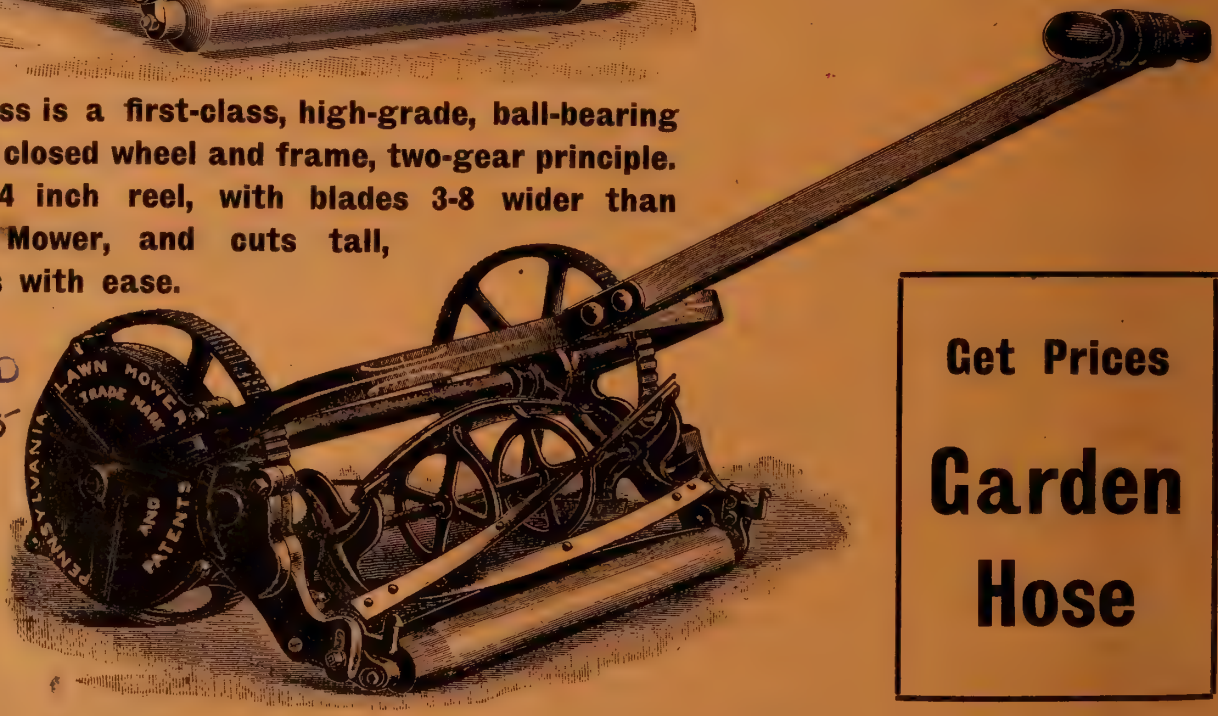
TWO LEADING LAWN MOWERS



Matchless Ball Bearing Lawn Mowers

10-inch Wheel. 5-bladed Reel.
4 sizes—14, 16, 18, 20-inch.

The Matchless is a first-class, high-grade, ball-bearing Mower, with closed wheel and frame, two-gear principle. It has 6 1-4 inch reel, with blades 3-8 wider than any other Mower, and cuts tall, heavy grass with ease.



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HIGH-WHEEL PENNSYLVANIA LAWN MOWER

2 Sizes—17, 19-inch. - - - - - - - Write for Prices.

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TORONTO.

ALWAYS READY FOR USE



Full Hollow Ground $2.00 Each
Double Concave for extra hard beards, $2.50
Send for free book, "HINTS TO SHAVERS."

The CARBO MAGNETIC RAZOR

No Honing! No Grinding!

No Smarting after Shaving. With ordinary careful use will

KEEP AN EDGE FOR YEARS WITHOUT HONING.

Booklet coming—if you will ask for a copy, with trade discount.

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A. L. SILBERSTEIN, MAKERS OF "Griffon" Cutlery

459-461 BROADWAY, NEW YORK.

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Hardware Merchants

and

General Store Keepers

we solicit a call or inquiry.

THOS. BIRKETT & SON CO., LIMITED

WHOLESALE HARDWARE MERCHANTS

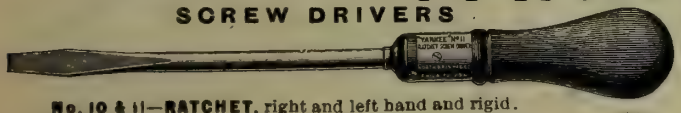
OTTAWA, ONT.

Other Tools are very Good Tools, but

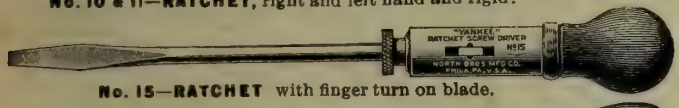
"YANKEE TOOLS" ARE BETTER

The NEWEST, CLEVEREST and QUICKEST SELLING TOOLS of the KIND.

SCREW DRIVERS



No. 10 & 11—RATCHET, right and left hand and rigid.



No. 15—RATCHET with finger turn on blade.

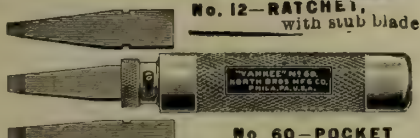


No. 30—SPIRAL RATCHET—right and left hand and rigid.
No. 31— " " " (heavy pattern)
No. 20— " " " right hand only.

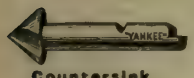


Chuck and 8 Drill Points, for spiral ratchet screw driver.

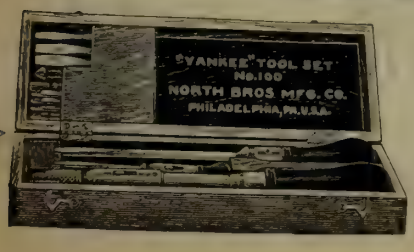
No. 12—RATCHET, with stub blade



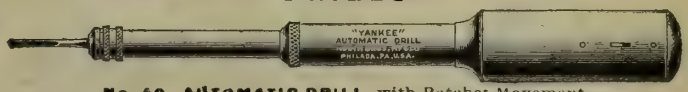
No. 60—POCKET SCREW DRIVER.



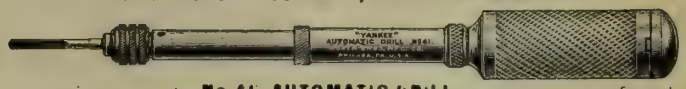
Countersink, for spiral ratchet screw driver.



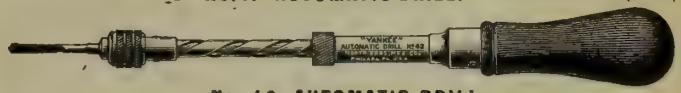
DRILLS



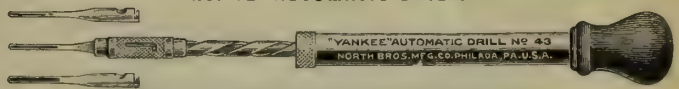
No. 40—AUTOMATIC DRILL, with Ratchet Movement.



No. 41—AUTOMATIC DRILL.



No. 42—AUTOMATIC DRILL.



No. 43—AUTOMATIC DRILL, for light drills only.



No. 44—AUTOMATIC DRILL, with adjustable tension on spring.



No 50—RECIPROCATING DRILL, for wood or metals.

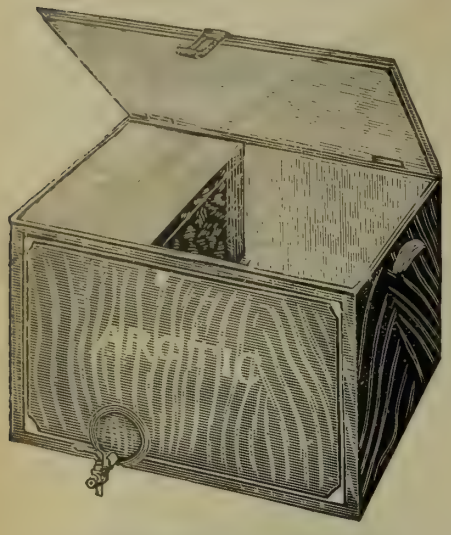
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SEND FOR OUR NEW "YANKEE" TOOL BOOK

NORTH BROS. MFG. CO.

PHILADELPHIA, Pa.

THE ARCTIC ICE CHEST



MADE IN THREE SIZES

No. 20—19 x 13¼ x 13¼
No. 30—23 x 16 x 16
No. 40—27 x 19¼ x 19¼

HANDY AND COMPACT
REFRIGERATOR

Made on Scientific Principles

Lined with Galvanized Iron.
Japanned in Oak and Ornamented. Nickel Plated Top.
Suitable for Yachting and Picnic Parties, Summer Residences, etc.
A boon in the sick room. Food for the invalid can be kept fresh and sweet at all times.

Prices on application to

The Thos. Davidson M'f'g Co., Limited
MONTREAL.

STEEL SHEETS

Dead Flat, Cold Rolled and Close Annealed

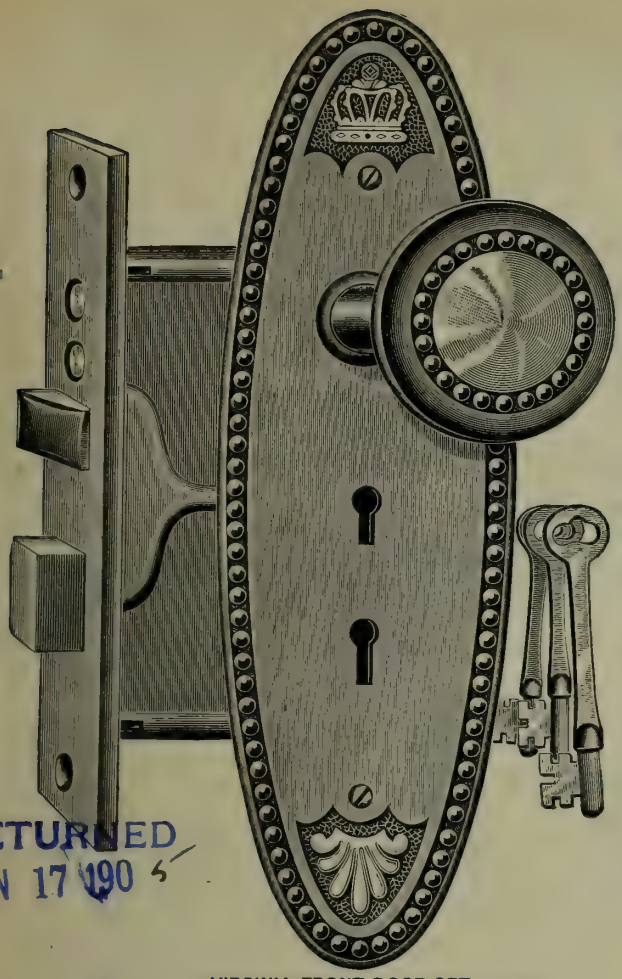
We guarantee our sheets to be unequalled for flatness, finish and working qualities. We can furnish special sizes promptly, and have the following sizes in stock :

96 x 36 x 16 ge.
96 x 36 x 17 ge.
96 x 36 x 18 ge.
96 x 36 x 20 ge.
96 x 36 x 22 ge.
96 x 36 x 24 ge.
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M. & L. Samuel, Benjamin & Co.

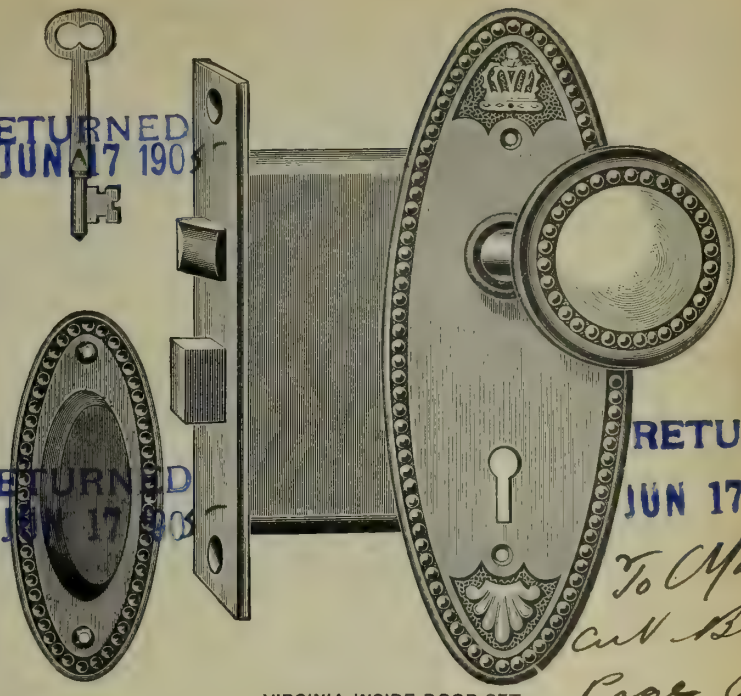
503 Temple Building - TORONTO.

English House—16 Philpot Lane, LONDON, ENGLAND



VIRGINIA FRONT DOOR SET

THESE SETS ARE FINISHED ANTIQUE COPPER



VIRGINIA INSIDE DOOR SET



No. 20 FRONT DOOR SET

What is Your Goal?

A bigger yearly sales total—or a bigger yearly net profit? If you sell heaps of no-profit staples like nails, and push things like stoves, every sale of which runs into money, your yearly sales may be enormous, but what's left for you in cash—the amount of your yearly net profit—is what really counts and with that for your goal you can't ignore the little things that sell all the time and keep profits streaming in without a break. And, too, business obligations are not one-sided. What right have you to complain of loss of trade if you force customers to go elsewhere for up-to-date things they naturally expect to find in your store? How to make more money can't be considered any too soon. We're headquarters for the most popular line of big selling lock sets offered by the trade. Send us a sample order, name the price you want to pay and we will do the rest.

Lewis Bros. & Co.

IMPORTERS and DISTRIBUTORS

Always Address Head Office at

MONTREAL

Ottawa — Vancouver

Toronto — Calgary



CORRESPONDENCE SOLICITED

GUNS, RIFLES, REVOLVERS

We are sole agents for one of the largest and best equipped Fire Arms manufacturers in Belgium, and can talk prices with anyone.

E. F. WALTER & CO., 166 and 168 McGILL STREET **MONTREAL**

American Steel & Wire Co.

New York 21 State Street. **Montreal** Bank of Ottawa Building. **Chicago** The Rookery.

BARBED WIRE GALVANIZED PLAIN WIRE
PLAIN TWIST CABLE FENCING

Telegraph and Telephone Wire; Mattress, Broom, Weaving Wires of every description; Rail Bonds, Bale Ties, Special Wires for all purposes, Springs, Horse Shoes, Wire Rope, Cold-drawn Steel Shafting.

DOMINION WIRE MANUFACTURING CO.

MONTREAL AND TORONTO LIMITED

NOTICE!

We beg to advise our many customers that notwithstanding the **TRADE REPORT** in issue June 10th, page 37, we are in a position to **EXECUTE PROMPTLY** all orders for the following goods:

Barb Wire, Galvanized Wire, Wire Nails,
Wood Screws,
Bright and Galvanized Fence Staples,

—also—

Steel Wire Barrel Hoops

MADE IN CANADA

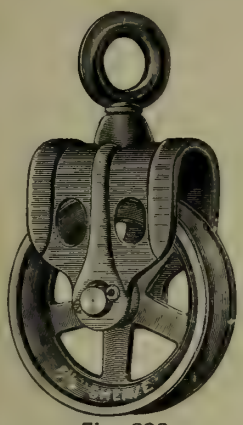


Fig. 692.
Cast Iron Pulley

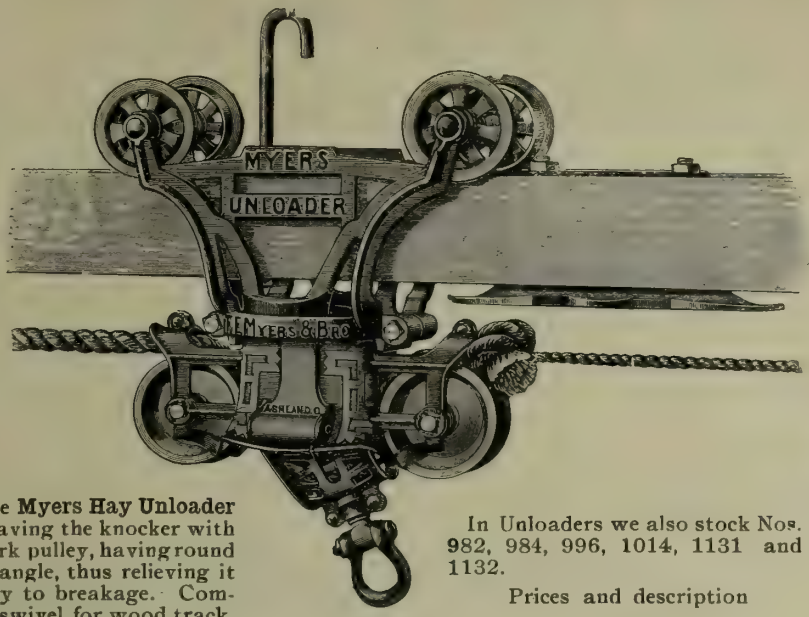


Fig. 996 illustrates the **Myers Hay Unloader** as it would appear in leaving the knocker with a swinging load. The fork pulley, having round top, can swing at any angle, thus relieving it from strain and liability to breakage. Combination, reversible and swivel, for wood track. It has seven-eighth inch turned steel axles.

Fig. 996.

In Unloaders we also stock Nos. 982, 984, 996, 1014, 1131 and 1132.

Prices and description on request.

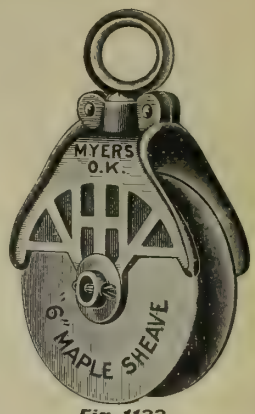


Fig. 1133
Myers O.K. Plain Pulley



Fig. 436
Rafter Bracket

MYERS' HAY TOOLS

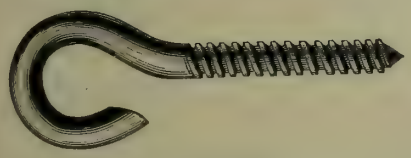


Fig. 266.
Floor Hook

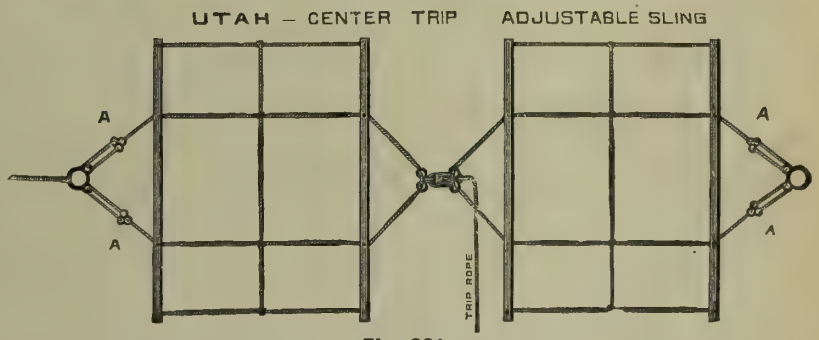


Fig. 621

Fig. 621 illustrates the **Utah Center Trip Adjustable Sling**, which has all the advantages of the Myers Center Trip Adjustable Sling, with the following changes: Instead of a three-foot cross-bar, the Utah has a six-foot, which extends beyond the side-ropes eighteen inches on either side, to which is attached an additional rope, and also a cross-rope attached to each of the main ropes, as shown in the cut. This sling really forms a net, and is designed to carry fine stuff. We also stock No. 620.

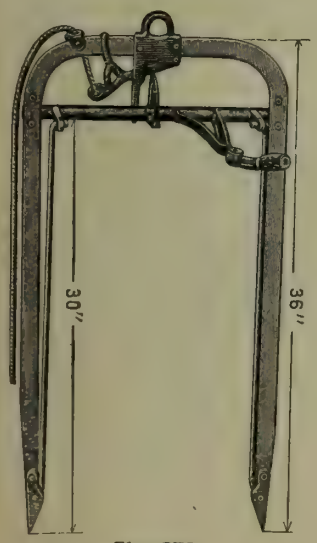


Fig. 670

Fig. 670 illustrates the **Myers Lock Lever Harpoon Hay Fork.** This fork is 19 inches wide, is made of spring steel; sets with one lever and locks open. While it is not larger than the regular double harpoon (except in width), it has 50 per cent. more capacity, owing to the cross-bar being placed nearer the top; and it gathers the grain or hay from the end of point, not two inches from the bottom, as all old-style forks do. We also stock No. 268.



Fig. 267
Wood Track Hanging Hook

Fig. 824.
Double Steel Track and Splicing Clamp.



The Hobbs Hardware Co., LIMITED

London, Ont.

Canadian Sales Agents for F. E. MYERS & BRO., Ashland, Ohio



HOLLOW-WARE

PRESSED, STAMPED, and MACHINE-MADE

ENAMELLED, TINNED, GALVANIZED and JAPANNED

We manufacture every description of Hollow-ware and we guarantee that every piece is made wholly on our own premises. Our average weekly capacity, is over 700,000 pieces, of Tinned, Galvanized and Enamelled ware. Our Enamelled ware is of superior durability and finish, and is guaranteed free from any poisonous substances.

Let us have your name for our illustrated lists

The Welsh Tinplate & Metal Stamping Co., Ltd.

LLANELLY, WALES

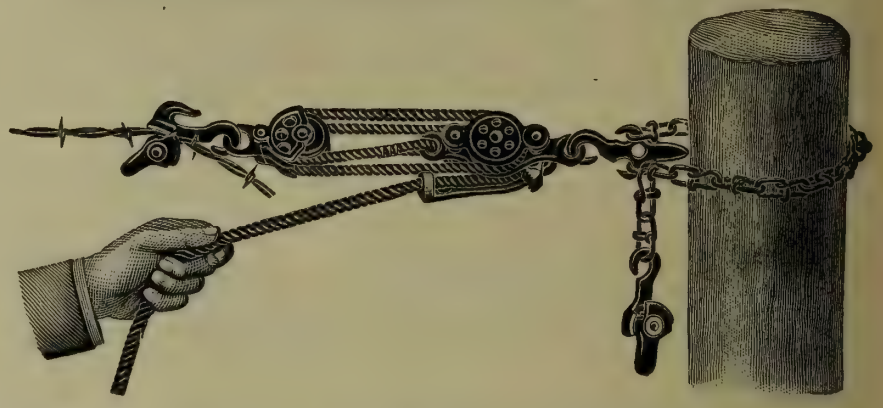
THIS IS THE

OLD STAND-BY

None better on the market unless it is the Triumph.

If your Jobber cannot supply, write us for prices.

NO. 233.—WILCOX TACKLE-BLOCK WIRE STRETCHER



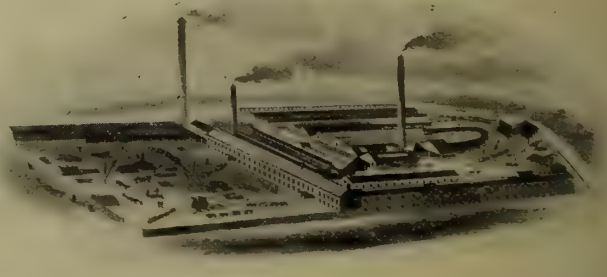
WILCOX MFG. CO. OF ONTARIO, Limited, London, Ont.

John Summers & Sons, Limited

Hawarden Bridge Works, Shotton, Flintshire, England



Globe Iron Works, Stalybridge, England



These two Works cover more than 50 acres. Our output of Galvanized Sheets exceeds 2,000 tons weekly, and we employ over 2,500 men.

Largest Makers of Galvanized Sheets in England.

Made from steel of our own manufacture straight from the raw materials; we are therefore able to guarantee the quality.

It will not pay you to buy inferior sheets.



DEAD FLAT SHEETS

Tough and pliable.

Will stand any amount of working up.

Right Material,

Right Quality,

Right Price.

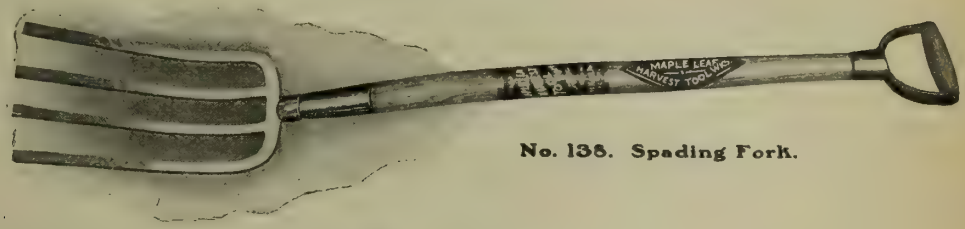
Agent: F. Hankin, Montreal

Have You Seen Them ?

For Beauty, Finish and Quality, the "Maple Leaf" Harvest Tools are unexcelled.



No. 122. Manure Fork.



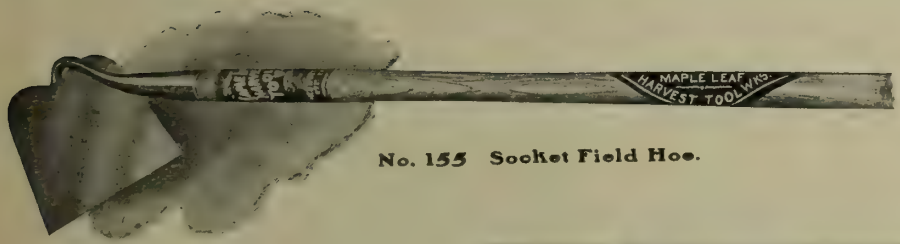
No. 138. Spading Fork.



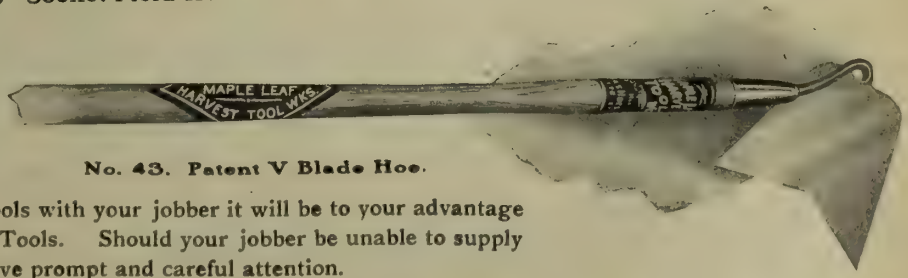
No. 248. Beet Fork.



No 108. Hay Fork.



No. 155 Socket Field Hoe.



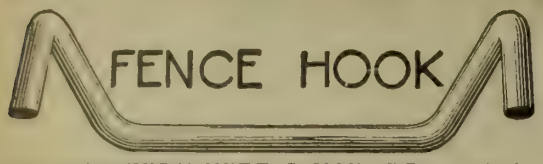
No. 43. Patent V Blade Hoe.

TO THE HARDWARE TRADE—

When placing your order for harvest tools with your jobber it will be to your advantage to **specify** for the **"Maple Leaf"** Harvest Tools. Should your jobber be unable to supply them, send your order to us and it will receive prompt and careful attention.

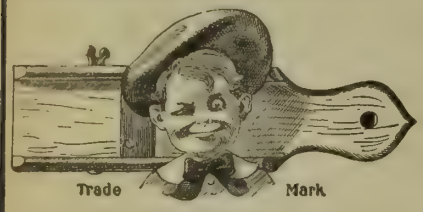
The Maple Leaf Harvest Tool Co., Limited, Tillsonburg, Ont.

GALVANIZED FENCE HOOK FOR FASTENING WOODEN PICKET ON WIRE FENCES



WIRE NAILS, COILED SPRING, BARB and PLAIN FENCE WIRE, OILED and ANNEALED, CLOTHES LINE WIRE, STAPLES, etc.

THE WESTERN WIRE & NAIL CO., Limited, LONDON, ONT.



"LITTLE SHAVER"

A handy kitchen utensil for scraping chocolate, slicing small fruits and vegetables. Sells well at all seasons because always useful. Made of hardwood. Blade of finely tempered steel.

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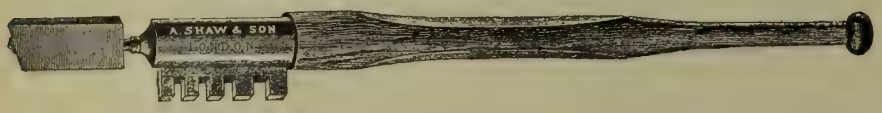
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Contractors to H. M. Government and the Principal English Sheet and Plate Glass Works.
Established 1815

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Lead Vices,
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Agents for Canada: A. Ramsay & Son Company, Montreal

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Ahead of all others in quality and workmanship. If sparks of fine quality, set by experts, are what you require, buy Diamonds of A. Shaw & Son's make.

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CELEBRATED HEINISCH SHEARS

Tailors' Shears,
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SEYMOUR SHEARS

HENRY T. SEYMOUR SHEAR CO. NEW YORK. TRADE MARK

HAVE BEEN THE
Standard for over Half a Century.
"QUALITY UNQUESTIONED."
Each pair of our shears bears the above trade mark.

HENRY T. SEYMOUR SHEAR CO. NEW YORK. TRADE MARK



Latest Catalogue will be sent in exchange for your business card.

Complete Line *TRIMMERS', BANKERS', BARBERS' and TAILORS' SHEARS, Etc., Etc.*

Henry T. Seymour Shear Company
WIEBUSCH & HILGER, Limited, NEW YORK, Sole Agents

Mr. Dealer:



Do you know there's a demand for a *good* steam cooker which you should supply? The profit on goods you are "out of" will never come back. We prefer to sell a progressive dealer rather than direct.

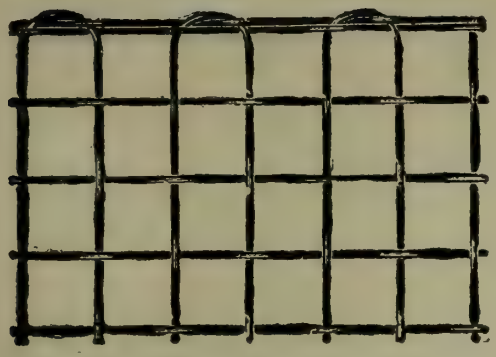
IDEAL STEAM COOKERS

are advertised thoroughly in all the national publications from Ladies' Home Journal down. Get our proposition—it means profits—*Dollars*—to you. We are the largest manufacturers in the world. Our lines are complete. We make all good kinds—Square (with whistles) Round (with whistles) in all desirable sizes, at all prices. 36-PAGE BOOK FREE—Write for it to-day, with confidential prices to dealers.

J. A. Ross
Sole Canadian Agent
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STITCHED COTTON DUCK
BELTING
DOMINION BELTING CO. LTD.
HAMILTON CANADA

WIRE CLOTH



Special Regalvanized Cloth for Apple and Fruit Drying.

Stock widths, 24, 30 and 36 in.
Other widths and meshes made to order.

Also ½-in. Galvanized Netting.

Stock widths, 24, 30 and 36 in.
Stock lengths, 25 and 50 yards.

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FOR ALL PURPOSES.

THE B. GREENING WIRE CO.
LIMITED
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Dillon Hinge-Stay Fence

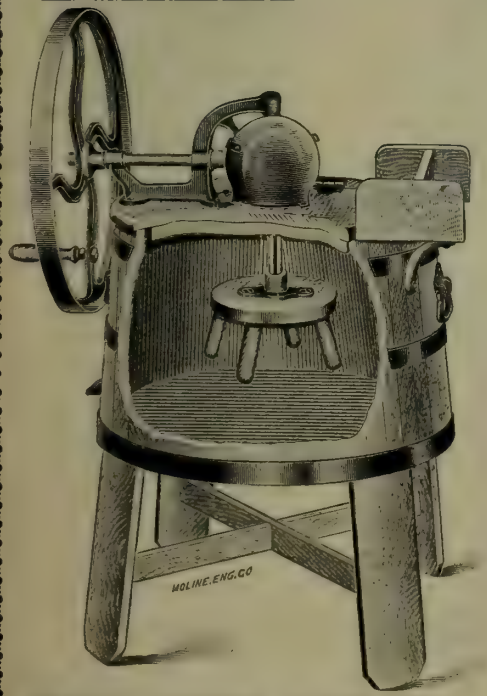


Don't let YOUR farmer customer go to the OTHER Hardware for his fencing because you have none. If so, he is likely to get his Stove, Harvest Tools and other goods there, too.

Put in a small attractive stock of our 1905 DILLON fence ing, keep it where it can be seen and it will attract farm custom. Good margin in it for you, too.

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Owen Sound, Ont.
MESSRS. CAVERHILL, LEARMONT & CO.,
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1905 Ocean Wave Washer



Accident Proof! Dust Proof!

SPECIAL FEATURES:

1st. Covered Gearing
which can be opened instantly to expose working mechanism.

2nd. Improved Dasher
We do not use **wooden** Dasher Pole.

3rd. Mechanical Movement Most Simple ever Constructed.

4th. The Best Seller
because it is more attractive than others.

Sold to only one dealer in each town.
Trial Order will convince.
Write us.

VOSS BROS. MFG. CO.——————DAVENPORT, IOWA, U.S.A.

John Round & Son, Limited

Manufacturing
GOLDSMITHS and SILVERSMITHS
Contractors to
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J.R. & S. ALL THE ROUND J.R. & S.
ESTABLISHED 1847

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14540.—FRUIT DISH.

Manufacturers of all Kinds of GOLD, SILVER
ELECTRO PLATE ON NICKEL
and BRITANNIA METAL GOODS
Silver and Plated Cutlery
Steel Cutlery, Oak and Inlaid Goods
With Silver and Plated Mounts



31197.—E.P.N.S. CAKE BASKET

Our Manufactures have a world-wide reputation of over 50 years' standing. We are the largest makers of spoons in the world.

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WILL YOU SEND US YOUR NAME?

HOTEL and SHIP'S OUTFITS, special goods for hard wear
Special designs for all purposes supplied free

WHATEVER YOUR REQUIREMENTS ARE DROP US A LINE

MONEY SAVING TOOLS



Straight Lathe Tool (11 sizes)



Boring Tool (6 sizes)



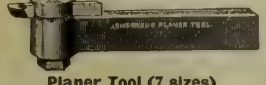
Straight Cut-Off Tool (7 sizes)



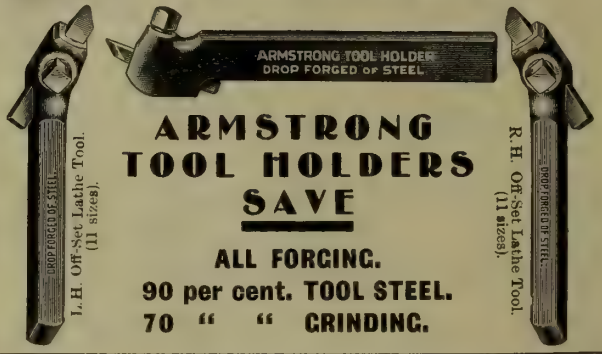
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R. & L. Cut-Off Tools (8 sizes)



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ARMSTRONG TOOL HOLDERS SAVE

ALL FORGING.
90 per cent. TOOL STEEL.
70 " " GRINDING.

The Armstrong Universal Ratchet Drill.

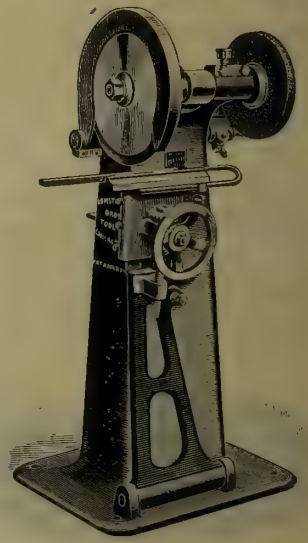
No Ball Joints or Bevel Gears.

Two inches of motion at end of handle IN ANY DIRECTION will Drive the Drill.

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PROCESS PATENTED.

Machine for Cutting Off and Grinding Tool Holder Cutters.

SAVES TIME, STEEL AND EMERY WHEELS.

WRITE FOR CATALOG.

ARMSTRONG BROS. TOOL CO., "The Tool Holder People." **104 to 124 N. Francisco Ave., CHICAGO, U.S.A.**

IMITATIONS ARE UNSATISFACTORY—INFRINGEMENTS ARE UNLAWFUL.


No. 30


No. 23

No Snow Just Now

But the probabilities say snow next Dec. and Jan.

The number of snow shoes made each year is limited, and, after a certain date, cannot be increased. The makers of snow shoes are urging us to get our orders entered, but we do not know how many pairs you need.

Better place your order now to be shipped when required. If you do this you will not be disappointed when the snow shoe season arrives.

The line is shown in our 1905 "Sporting and Fall Goods" Catalogue. A copy on request.


No. 26


No. 22

Frothingham & Workman, LIMITED

Wholesale Hardware and Iron Merchants,
Montreal, - Canada.

FOR NEARLY A CENTURY SELLERS OF HARDWARE.



—FOR SALE BY—

The KENNEDY HARDWARE Co., Limited

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ANY FISH CAN FLOAT DOWN STREAM; IT TAKES A LIVE ONE TO SWIM UP.

WE ARE ALIVE; AND OUR INVITATION TO YOU IS

Get in the Swim

WITH

OUR ARMY OF SATISFIED CUSTOMERS

WHO SELL



Gilt Edge *650 ft.*
Gold Leaf *600 ft.*
Silver Leaf *550 ft.*
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BINDER TWINE.

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Best in Quality.
Product of Canadian Industry.
Leading in Popularity.

ORDERS AND ENQUIRIES RECEIVE PROMPT ATTENTION

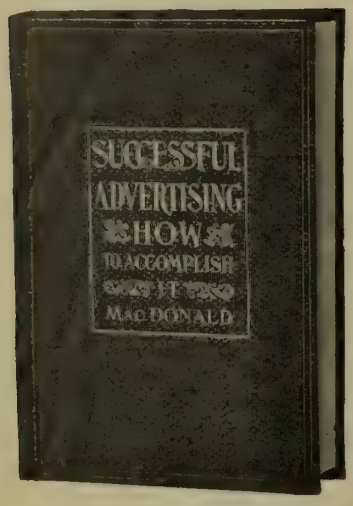
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BRANTFORD, ONTARIO

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The MacLean Publishing Co. Limited

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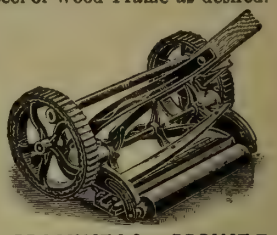

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DAVID MAXWELL & SONS

ST. MARYS, ONT., CANADA.

"Maxwell Favorite Churn." PATENTED FEATURES: Improved Steel Stand, Roller Bearings, and Foot and Hand Lever Drive, and Detachable Driving Link. Improved for season of 1904. Steel or Wood Frame as desired.

Lawn Mowers. High and Low Wheels, from 12 in. to 20 in. widths. Cold Rolled Steel Shafting, Crucible Steel Knives and Cutting Plate.



If your Wholesale House does not offer you these articles

SEND DIRECT TO US.



MAXWELL MOWER

8-in. Low Wheel.

Wheelbarrows. In Four Different Sizes.

BEFORE PLACING ORDERS FOR

GALVANIZED SHEETS

GOOD WORKING-UP QUALITY, ASK

RD. JOHNSON, CLAPHAM & MORRIS, Limited

MANCHESTER, ENGLAND,

J.C.M.

FOR PRICES OF THEIR BRAND

THE ALGOMA STEEL CO. LIMITED

SAULT STE. MARIE, Ont.

is now booking orders for

STEEL RAILS

for late Summer, 1905, and early Spring, 1906, delivery. Parties intending purchasing will find it to their interests to let us have their specifications at an early date, so as to ensure desired deliveries.

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Canadian Oil Gusher

Oil Well Cables

Sand Lines

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Sucker Rod Lines

Torpedo Lines

Bull Ropes

THIS WELL WAS BORED WITH ONE OF OUR CABLES.

Consumers Cordage Co., Limited

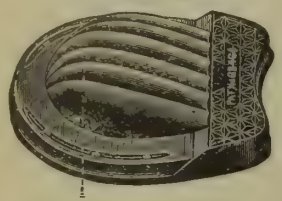
MILLS: MONTREAL and HALIFAX.

BRANCHES:

W. A. C. HAMILTON, Toronto, Ont.; MERRICK, ANDERSON & CO., Winnipeg, Man.; F. H. ANDREWS & SON, Quebec, Que.; MacGOWAN & CO., Vancouver, B.C.; CONSUMERS CORDAGE CO., Limited, St. John, N.B.; GEO. WOOD, London, Eng.

Sort Up Your Stock

Look for this Trade Mark on every Pad.



See that Cushion?
It fills with air at each step.
That's what breaks concussion.
That's what prevents slipping.
That's what keeps the foot healthy.
That's what cures lameness.

Ever Think of HORSE SHOE PADS as a Stock Line?

Summer days are here. Horse Shoe Pads sell on sight these out-door months of May, June and July. Write any of our Sales Branches for illustrated descriptive literature on our full range of Horse Shoe Pads. :: :: ::



Horse Shoe Pads lengthen the life of a good horse; improve a poor horse 50 per cent.

Sales Branches and Warehouses:

172 Granville St., Halifax, N.S. | Imperial Bank Building, Montreal, Que. | Front and Yonge Sts., Toronto, Ont. | 89 Princess St., Winnipeg, Man. | 403 Cordova St., Vancouver, B.C.

THE CANADIAN RUBBER Co. OF MONTREAL.

LIMITED

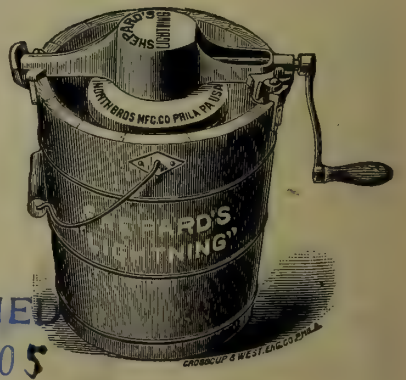


Novelty Refrigerators and Water Coolers

Made of Heavy Galvanized Iron. Finished in Oak with Gold Bands. Nickel Plated Faucets. 3 sizes.

Ice Cream Freezers

We handle the **"Lightning" Quadruple Action Freezer.** Sizes 2 to 20 quart—the best on the market to-day. Also the **"Blizzard" Single Action Freezer.** Sizes 2 to 10 quart.



For a low priced freezer there are none better than the "Blizzard."

WE WILL BE PLEASED TO QUOTE YOU

KEMP MANUFACTURING CO., TORONTO, ONT.

THE KEMP MFG. AND METAL CO., LIMITED,
McDermot Ave. East, Winnipeg, Man.

THE KEMP MFG. CO. OF MONTREAL,
58 McGill St., Montreal, Que.

RETURNED JUL 15 1905

THE FUTURE OF THE COUNTRY STORE

By C. M. Harger, in the Atlantic Monthly.

STANDING before the door of his long-established but modest emporium, his ample form flanked by windows displaying hose and pancake flour, boys' suits and writing paper, washboards and cigars, while a garish sign, "General Merchandise," creaked above, the pioneer proprietor pointed to a heap of freight the train now disappearing over the plains had dumped on the depot platform.

"More work of the catalogues," he commented bitterly. "Three sacks of 'em came to the post office last week,—now the folks are sending for the goods. Think they are saving money, I suppose."

"Perhaps they are"

"Not much. If they will give me all their orders and pay cash, as they have to do with the catalogue mail-order houses, I'll get 'em just as good stuff, and just as cheap. Some things they may buy cheaper, but they're cheaper goods."

"Why do they do it, then"

"Because it's the city,—it sounds better, somehow; and the catalogues make everything look so fine. Why, the other day a farmer came here to borrow wrenches to set up a windmill he had sent to Chicago for. Then they expect me to take what's left,—or when they haven't the cash to send away. It's getting so that the farmer can live ten miles from town and even buy his groceries in St. Louis or New York and have 'em delivered without leaving the place. It means that we might as well shut up shop."

The Favored Visitors.

A few years ago I visited the largest mail-order store in Chicago, where millions of dollars' worth of merchandise is sent out every year. Its dozen floors are crowded with goods and employes—and some customers. Few of the latter are from the city. At the door stands a clerk, who carefully inspects every visitor.

"From out of the city, sir?"

If the answer be "No," you may enter or not as you please,—little does the well-trained employe care.

"Yes,—from Iowa," and how the hand goes out in greeting!

"Glad to have you come in; look over the store,—and here is a ticket for the elevator to the tower."

The ticket is marked "25 cents," and you are told it costs that sum to a resident of the city. The store caters only to out-of-town visitors. Of course you go to the tower,—you had paid gladly to reach lesser heights elsewhere. In the elevator you find people who are evidently strangers to the big town; some are farmer-folk making their first visit to the metropolis. "We bought all Kate's housefurnishing from here," is overheard as a group is pressed against the iron railing at the top. They are overcome by the wonders spread out far below them, and will go back home with marvelous tales of the greatness of the city and of the magnitude of this supply house in particular, the bestower of a free elevator ride.

A Plea For Free Buying.

A representative midwestern farmer addressed his State's agricultural society recently, making this plea for buying wherever he pleased. The farmer is able to sell as well as can the man of whom he buys, and he sells for cash, hence he is entitled to buy where he can buy cheapest. He went on: "Your nearest merchants claim the right to buy where they can buy the cheapest, whether it be of you, from Kansas City, or New York; it is also true that they exercise this right, for one day I happened in one of our home stores just as a town lady was buying some cabbage. The merchant was, of course, praising his wares, and would use his set form of speech by saying that those cabbages he had had shipped in from Wisconsin. Knowing that there were plenty of cabbages for sale by farmers, we put in our oar to the extent of asking why he did not buy his produce from those who bought goods of him. 'Well, you see,' he explained, 'we can get Wisconsin cabbage laid down in our store for the same as we pay for home stock, and these'—giving the crate the vegetables were shipped in a kick with his foot,—'are solider than any we can buy here.' How hollow their cry, 'Buy of your home merchant, the man who takes your products,' sounded to us after hearing this bit of talk from the dealer himself.

"But does the merchant you pay money to for goods keep it at home any more than you do when you send to Kansas City or Chicago for what you want? Let us see. Suppose you want a sack of granulated sugar. Your home merchant sells you a sack for six dollars, puts a dollar of it in his own pocket for handling it for you, and sends the rest to the sugar trust in the east to pay for the sugar. On the same day you buy the sugar from your home dealer, let us suppose you send to some mail-order house for another sack of a like grade. You send away $4.75, and when the sugar comes you pay fifty cents in freight, making it cost you $5.25, saving you seventy-five cents. The reason we quote no freight charges against the home dealer is because all dealers usually buy on a basis of 'delivered at your store,' but the freight charges have been



A Dawson City Hardware Store.

added, and the consumer has to pay them, no matter where the goods originally came from. You have seventy-five cents instead of the merchant having one dollar."

Is It a Sound Argument?

This is a typical argument of the mail-order house's farmer buyer, but it does not include the legitimate outcome of such a proceeding extended to an entire community. It is probable that few of the farmers who exploit so glibly the process by which seventy-five cents is kept at home would care to have their county towns come to the natural result from universal adoption of this policy. Instead of streets of brick blocks where thriving business houses bring the attendant features of modern town life, there would be only a railway station, post office, blacksmith shop, doctor's office, and grain elevator. The lawyers would have their offices in their homes or in the court house; there would be no need of storerooms, and the county newspaper, which would contain no advertising except mail-order house announcements printed on its "patent inside," could probably occupy one end of the commodious freight depot which would be necessary to care for the many shipments of goods. The rural districts of the nation would be very dismal places were this the situation and were all the local places for distribution of the needs of the home wiped out.

It is also interesting to note the magnitude to which the central establishments for furnishing goods under such conditions would attain. They would overshadow the mightiest emporiums of the present. The railroads would be burdened with small shipments to individuals, and the mails would be heavy with orders. The few large cities would contain these great dispensing centres, and the remainder of the commercial life of the country would be practically nothing, being confined to the minor trades and needful professions. The country store would be a thing of the past; business would be centralized beyond any conditions now existing.

Genesis of the Country Store.

To go back to the genesis of the country store: from the beginning as the nucleus of the settlement life, it has become one of a dozen struggling enterprises desirous of securing the trade of the surrounding country. As the town grew and reached its permanent position among the municipalities of the State, the pioneer store, if it was managed with intelligence, retained its general character, but, branching out, took on the mature of a department store on a small scale. It yet sold washboards and millinery, but it did so in the different departments, each with a head and a corps of clerks. The probabilities are that its owner has become a "mercantile company," meaning that the originator has taken into partnership some of his helpers in order to get more faithful service. These stores, of which nearly every country seat has two or more, are to the country communities what the great emporiums are to the city trade. They occupy full pages in the county weeklies, and their advertising, prepared by some bright clerk or bookkeeper, does not suffer in comparison with that of high-priced "adsmiths," who give professional service in the announcements of the city department stores. Smart delivery wagons make prompt and accommodating disposal of goods at customers' houses. Frequent visits of the proprietors to the large cities keep in evidence through carefully arranged display windows a touch of the world's newest designs.

Strength of Country Stores.

The strength of these stores is this,—they carry large stocks; their owners are often interested in mills or elevators that buy the farmer's grain; they take all the eggs and poultry brought to town,—being the feeders for the combeauty and describes them in terms of eulogy. The reader sees therein an opportunity for supplying a want never before suspected,—the country merchant had never suggested this line of thought to him.

Lessons For Merchants.

Herein lies a lesson for the country merchant of to-day. The latter, with his proximity to the buyer, his acquaintance with the community needs and abilities, his weekly access to the homes through the country paper, which is read from first to last column by every member of the family. his lessened freight rates on large quantities instead of single orders, has an advantage over the city merchant which he ought to utilize, and which, in many places. he is seizing as a lever for trade bringing .

The country papers which get no local advertising from the mail-order houses (many will not admit it to their columns) help along this home-buying sentiment by vigorous sermons on the value of standing up for home industries. Here is a sample of their argument:

"When your baby died, did the mail-order house send its sympathy? When your crop failed, did it offer to carry you a while? When your daughter was married, did it send a present? Has it helped build the churches, the schoolhouses, or the bridges of the community? Stand by your home merchant who has done all of these things. Help home industries and home people."

The country department store that uses modern methods in trade and advertising cannot be broken up. Its business is so interwoven with the industry of the people that it grows as the community grows; but there is not room for many such stores in a given town, not so many as there would be if the mail-order house and the city department house with its mail-order division did not exist.

Then there is the grocery store,—no mail-order house can destroy that. It is true that the master of the household may order sugar, coffee, prunes, canned goods, and oatmeal sent by freight; but the majority of the eatables must be seen by the mistress of the home before being paid for.

City Buying.

City buying is naturally most common in towns within short distances of the metropolis. With the frequent train service that enters the city depots the temptation to buy in the greater markets is irresistible. For fifty miles outside of St. Louis, Chicago, Cincinnati, and other large cities, there is little life visible in the business streets of the town. Deserted store buildings are common, paint is needed,—many of the towns look as if the very life-blood had been sapped out of them. There may be beautiful residence streets and fine homes, but prosperous stores are few.

It is, naturally, impossible to put a stop to personal expenditures in the city by those who visit trade centres, except as public opinion may discourage it; but the country merchants through their business organizations endeavor to compel jobbing houses to co-operate with them in the protection of trade.

Parcels Post.

The retail trade associations—and the country merchant generally agrees with them—look with great disfavor on the parcels post, considering the scheme as another menace to their trade. "If," say they, "the rural delivery carrier is to become a hauler of express, we may as well go out of business; the farmer now is compelled to come to town after most goods he orders by mail; then he may remain on his farm and have them brought to his door." The up-to-date country merchant, like his competitor, is utilizing the rural delivery. In many counties half the people can be reached by it. Being nearer to the people, he is finding ways to combat the foreigner, and is including modern methods and better system as prominent features in his campaign.

If a wholesale dealer sells ploughs to a grocer who proposes to put in these as a side line, the officers of an association, with a thousand or more retail implement dealers as members, ask him for an explanation. If he does not wish to be blacklisted by the legitimate trade, mission houses of which the Nebraskan complains,—and they meet the prices of the mail-order houses as closely as possible. Many of them keep standing in

WIRE NAILS
TACKS
WIRE

Prompt Shipment

The ONTARIO TACK CO.
Limited.
HAMILTON, ONT.

the local papers such announcements as this: "We will duplicate the price of any article advertised in a mail-order catalogue."

Such a statement does not secure all the trade, but it goes a long way to convince the buyers of the value of their home store.

The vividness of the illustrated advertising done by the mail-order houses, compared with that done by the country merchants, is held by many to be responsible for the success attained in securing trade, and it is probably a most important factor. The bulky catalogue introduces its readers to hundreds of articles never before dreamed of as possibilities of the home; it pictures these goods in all their imagined he must regain good standing. Such is the country merchant's protest against the transference of trade from himself to the city dealer and for the specialization of business within certain bounds.

So the country merchant has friends left, and while he finds his trade curtailed and his business lessened by the wide-reaching mail-order house, he fills a place in the economy of the rural portions of the nation that cannot be taken from him. He is close to the heart of the neighborhood. He may be harassed by rivalries and annoyed by the freight shipments from the city, but he is certain to be a factor in the community life, and it is probable that he will, as he accepts the new conditions and learns how to adapt his business to the modern ways, become even more influential. There is more business to be done now than of old, and he can spare a large portion of it and yet have in his hands the making of a comfortable living. His success depends on his own aggressiveness and his own grasp of modern conditions.



Trade Conditions in Birmingham

By H. B.

June 7, 1905.

IT is remarkable to observe the rapidity with which the local iron market responded to the changed conditions brought about by the decisiveness of the Japanese naval victory. While the news was arriving apathy was succeeded by comparative animation. Orders held in suspense were placed and contracts for forward delivery given out, the permanent re-opening of the fair way to the Far East inspiring confidence and fostering enterprise. Large orders for Japanese rolling stock gave further stimulus to the wagon trade of the district, while locomotive engineering firms in the north report themselves as busy with orders for the Mikado's Government. Pig iron is firm at 12s. to 13s., some houses quoting 2s. 6d per ton on lake rates. Galvanized sheets maintain the recent advance to a 10 guineas basis, f.o.b. Liverpool, while black sheets show no upward tendency. The clearance of the sea and the prospect of a speedy termination of the war, is giving an impetus to the already improved tone of trade generally. But the depression has been so acute and long-continued, that time must yet elapse before the varied trades of the midlands renew their wonted activity. The impression is general, however, that the worst is over, and if the experience of past depressions in trade consequent upon a great war, are repeated, there ought to be a very good time coming for midland manufacturers.

We are awaiting with a good deal of local interest the visit of the Canadian manufacturers who, to the number of some two hundred, will arrive in England on June 17 and accept Birmingham's hospitality on the 27th.

Mr. J. T. Middlemore, one of Birmingham's parliamentary representatives, is well known in Canada, to which he has made lengthened visits. He is at the head of a large manufacturing firm connected with the leather trade, and is the founder and father of the Children's Emigration Homes, an institution which rescues large numbers of waifs and strays from lives of poverty and crime, and after some years of careful training sends them to Canada where the great majority become good and useful men and women. At the annual meeting held this week, over which our Lord Mayor presided, and which included the Lord Bishop of Birmingham and Sir James Rankin, M.P. and Mr. A. Baldwin, M.P., abundant testimony was forthcoming to the continued success of these homes in relieving Birmingham of destitute children, and making good business men in embryo for Canada. Mr. Middlemore, in proposing a cordial vote of thanks to Canadian friends, especially mentioned the valuable services rendered to the children by the committee at Fredericton, and by Colonel Vince of Woodstock. There was not the slightest doubt, he said, that with their Canadian surroundings, the boys and girls turned out to be magnificent men and women—he did not like to say it—such men and women as one saw too few samples of in Birmingham. They were so clear headed, able to act for themselves, so manly, so worthy of respect. There were a few failures, but they were very few indeed. Mr. Middlemore speaks with thirty-three years experience, and his testimony speaks volumes for Canadian environment and Canadian opportunities.

CATALOGUES, BOOKLETS, ETC.

When sending catalogues for review, manufacturers would confer a favor by pointing out the new articles that they contain. It would assist the editor in writing the review.

"The Ideal Fitter."

AMERICAN RADIATOR CO., Chicago, has just issued the most complete book dealing with radiators ever published by this company. It is a 284-page book, size 3⅞x6¾, printed in two colors on fine book paper, containing illustrations and descriptions of the company's boilers, radiators and specialties. New features of interest found in this book are illustrations with descriptions and list prices of the new Ideal Sectional 48-inch steam and water boilers having capacities running from 3,700 square feet to 11,375 square feet of direct radiation. It also contains some illustrations and data pertaining to new forms of American radiators, likewise many illustrations of improved types of heating specialties and several charts and tables of interest to engineers and plumbers who are interested in the matter of installing apparatus for hot water supply for faucet service and other purposes requiring the use of hot or tepid water. This book is now being distributed to all dealers and heating contractors, plumbers, steamfitters and architects and it is bound to be a welcome addition to any trade library in the heating line.

Gray's Elbow Patterns.

In Hardware and Metal of June 3, notice was given of the receipt of samples of Gray's Elbow Patterns, issued by the David Williams Co., 232 William street, New York, and a casual reader would understand from our notice that the patterns were being supplied free. This is wrong as the patterns are very elaborate and are gotten together in two sets of 80 each, the price being $1 for each set. Orders may be sent to Hardware and Metal's book department. The blue prints are invaluable to any worker on tin or heavier metals.

Warehouse Trucks.

Monteith, Nixon & Co., 256 Macdonell avenue, Toronto, have issued a small folder illustrating and describing their warehouse and factory floor trucks, which have many features of advantage. Reference is also made to domestic water supply outfits handled by the firm. Those desiring further information or copies of the folder should mention this paper when writing.

Nails and Buttons.

Leather saddlery nails, tufting buttons and other goods sold by hardwaremen to upholsterers are illustrated on sample cards issued by the Tockwotton Co., Providence, R.I. Furniture men and upholsterers or hardwaremen who sell to these people should get in touch with this company. Mention this paper when writing.

Bi-Ped Tack Puller.

The General Specialty Co., 501 Harrison Building, Philadelphia, Pa., are sending out an interesting leaflet illustrating the Bi-Ped Tack Puller, a new and popular tool used to withdraw tacks from carpets or matting without bruising the knuckles or tearing the carpets. Say you saw this item in Hardware and Metal when writing.

There are ***HAMMERS*** *that "Knock," and there are* ***HAMMERS*** *that convince. We employ the convincing kind; for instance, we say contact with the Hammer will not discharge an*

IVER JOHNSON REVOLVER

And then we use our ***HAMMER*** *just to demonstrate the truth of our assertion. We call this a convincing argument, not "Knocking."*

Hammer the Hammer



Send for literature.

IVER JOHNSON'S ARMS & CYCLE WORKS,
FITCHBURG, MASS.
New York Office: No. 99 Chambers Street.

Eagle Mop Wringer.

Eagle Cooperage Works, Circleville, Ohio, are sending out announcements of their Eagle Mop Wringer and Bucket combined, the illustrations showing the various sizes and method of shipping. Dealers interested in new goods should send to this firm for descriptive matter, mentioning this paper in their letter.

Die Stocks.

A comprehensive catalogue of 32 pages and cover, illustrating the geared solid die stocks manufactured by the Borden Co., Warren, Ohio, has been sent us. Both illustrations and reading matter are designed to give a thorough knowledge of the machines shown and succeed admirably. Copies will be sent to any reader of this paper who mentions Hardware and Metal when writing.

Beer Pumps and Supplies.

The Bishop & Babcock Co., Cleveland, Ohio, have issued two fine catalogues, one comprising 104 pages and cover, dealing with beer pumps and bar-room supplies required by plumbers when installing hotel plumbing. The second booklet is 44 pages and cover and thoroughly describes the line of carbonators and soda outfits. Plumbers desiring copies of these catalogues should mention Hardware and Metal when writing.

Custom-Made Fly Screens.

Catalogue "B," issued by the A. J. Phillips Co., Fenton, Mich., dealing with wire screens for excluding insects from residences, hotels, and other buildings requiring Summer ventilation, has been received. It is a handy booklet of twenty pages, and will be sent to any merchant who writes for a copy and mentions the name of this paper.

Ice Tools.

Gifford's ice elevating, conveying and lowering machinery, and Wood's ice tools, are illustrated in a pamphlet just issued by the Gifford-Wood Co., of Arlington, Mass., and Hudson, N.Y. The booklet is handy in itself, but a complete elevator and ice tool catalogue is mailed on application if the name of this paper is mentioned in the letter.

BRANCHING OUT.

The Gutta Percha & Rubber Co. (of Toronto), Limited, have just completed arrangements for sample rooms and stock rooms in London, England, and are now settled in commanding premises at No. 1 Finsbury Square, within two or three minutes' walk of the Bank of England. For the present, they are confining their sales to rubber shoes and rubber heels, the introduction of their mechanical supplies being left until later on. Mr. R. H. Green, who opened up this branch, returned to Toronto a few days ago and is now to be found at his old post.

H. S. HOWLAND, SONS & CO. LIMITED

HARDWARE MERCHANTS

Wholesale Only

138-140 WEST FRONT STREET, TORONTO

Only Wholesale

ICE CREAM FREEZERS



RETURNE
JUN 17 190

"Frezo" Freezers

Sizes 1, 2, 3, 4, 6 Quarts



Ice Chipper

RETURNED
JUN 17 1905



RETURNE
JUN 17 190
To Amer
cut Book
Page 69

"Peerless Iceland" Freezers

Sizes 2, 3, 4, 6, 8, 10, 12, 16, 20 Quarts

Fly wheels for 16 and 20 Quarts.

Makes ice cream in four minutes. Full size tubs and cans. Tubs are made of the best quality of lumber and cans of the strongest and best coated tinplate. Dasher is of an improved type, double scrapers fastened in the same manner as in Peerless Iceland. Gear frame heavy and strong. Turned by gears fastened on can top. The best constructed freezer of this type.

Has the fewest parts and only one motion—all that is necessary for the freezing of smooth, delicious cream in three minutes. The can revolves around stationary dasher. The quick freezing is accounted for by the peculiar construction of the dasher and the way it handles the cream set in motion by revolving can.

AMERICAN TWIN FREEZER

Freezes two flavors of ice cream, or an ice or sherbet and ice cream, at one and the same time, in one freezer.

Something Entirely New—Never Done Before.

A freezer to make two flavors at one time has been long wanted. In families some prefer one flavor, others another; some prefer ice cream, others a water or ice sherbet, so some had to be dissatisfied no matter what was made in the old time freezer.

RETURNE
JUN 17 190



"Twin Freezer" Size 3, 4 Quarts

In the American Twin Freezer the can is divided in two parts by a vertical partition. The dasher carries two sets of scrapers, one set fitting in one side of can and the other set in opposite side. The can cannot be turned as in old style freezers, because of the partition. It is, therefore, swung to and fro by a rocking motion of the crank. This is a more comfortable and much easier movement. It is very much less tiresome than turning a crank. One can sit in a chair with freezer alongside and rock the crank to and fro without discomfort or undue exertion and read at same time. Although two flavors are frozen at once and with less exertion, no more time is required than in old style freezers.

The **pails are of cedar** (the best wood known to resist water) **with electric welded wire hoops,** which are guaranteed not to break or fall off; cans are of heavy tin plate with **drawn steel bottome** that are guaranteed not to fall out or break and do not leak; the strongest and most durable Freezer Can made; the **Automatic Twin Scrapers** by their positive action insure perfect scraping of frozen particles from side of can. All inside parts are heavily coated with pure block tin, and outside parts all thoroughly galvanized.

H. S. HOWLAND, SONS & CO., LIMITED, Toronto.

We Ship Promptly.

GRAHAM NAILS ARE THE BEST.

Factory: Dufferin Street, Toronto, Ont.

Our prices are right.

The Standard Ideal Sanitary Co. Limited

MANUFACTURERS OF

Porcelain Enamel Bath Tubs Lavatories Sinks Slop Hoppers

"MADE IN CANADA."

Write us at once if you want to secure

A CATALOGUE

of the latest designs of **Porcelain Enamelled Bath Tubs, Sinks, Urinals, Latrines, Etc.**

Now ready for distribution and will be mailed on application.

THE ONLY MANUFACTURERS OF ENAMELLED WARE IN CANADA

Head Office and Factory: *Port Hope, Ont.*

Sales Office: *50 Colborne St., Toronto.*

RETURNED JUL 14 190

J.M.T.

RETURNED JUN 23 190



Plumbers' Supplies

In Full Variety

BATHS, LAVATORIES, CLOSETS

Use J.M.T. Cushion-Disc Bibbs, Basin and Bath Cocks—they keep tight and last a lifetime.

The James Morrison Brass Mfg. Co., Limited

89-97 West Adelaide St., Toronto

RETURNED JUN 23 1905



The J.M.T. AUTOMATIC Injector

contains all the best features in Injector construction.

Thoroughly reliable.
Fully guaranteed.

We are also sole makers of the genuine Hancock Inspirator. The old reliable double tube Boiler Feeder adapted for all duties and ranges of pressure.

High-Grade Steam Specialties.

Valves, Steam Gauges, Lubricators, &c.

The James Morrison Brass Mfg. Co., Limited

Toronto

HEATING AND PLUMBING

PLUMBERS MEET AT ATLANTA

Representatives from Canada Attend the Convention in the South

THE "Sunny South" was captured by men and women from the north, east and west last week, when the twenty-third annual meeting of the National Association of Master Plumbers of the United States was held in fair Atlanta, Georgia.

Delegates were there from the Atlantic Coast on the east to the Pacific Coast on the west, and the north reached over into the Dominion of Canada for additions to their number.

The Piedmont, the hotel chosen as the headquarters, is a magnificent structure, entirely fire proof, and ten storeys in height, replete in all its appointments. The Canadian contingent, which consisted of Fred Armstrong and W. H. Meredith, of Toronto, and W. J. Walsh, of Hamilton, all of whom were accompanied by their wives, made this their home while in Atlanta. When the Canadians reached Atlanta Sunday afternoon, they found, even at that early stage, that a great number had already arrived.

The board of directors were in session all day Monday preparing their final report and cleaning up the unfinished work so that they might be in a position to meet the convention on the following morning. The Canadian delegation were requested to appear before the board to talk over matters of mutual interest.

Fully 1,000 in Attendance.

The convention proper opened on Tuesday morning, June 6th, at 10 o'clock, in the Grand Opera House. When President Craig took the chair fully 1,000 persons were in attendance, 600 of whom were accredited delegates. The rest were ladies and members who accompanied the regular delegates.

Addresses of welcome were delivered by Hon. Jas. G. Woodward, mayor of the city; Hon. A. A. Howell, representing the governor, and A. F. Bellingrath, representing the local association. All of these gentlemen proved beyond a doubt that whatever else the south can grow, they can certainly produce orators in language flowery, in language of wit, in language of humor, in words of patriotism, and in words of welcome. Hon. Mr. Howell told of an eminent Georgian who said that he would rather be a fiddler on the hills of Georgia than a harpist at the gates of heaven. Mayor Woodward was happy in his remarks, and extended to all the freedom of the city, a freedom which none abused.

The business proper did not commence before the afternoon session. The report of the credential committee, among other things, recommended that their three friends from the sister association of the Dominion of Canada be extended privileges of regular delegates in all except voting. This was unanimously concurred in by the convention. President Craig called the Canadian representatives to the platform and introduced them to the convention.

Canadian Delegates Extend Greetings.

Fred Armstrong said that the treatment accorded to the delegates from Canada last year at St. Louis was so warm and hearty that we could not refrain from again meeting with them, and that he brought the greetings of the Canadian association. We, in Canada, who were young in association work, were pleased to have another opportunity to learn of those of riper experience, and possibly could offer some suggestions that may be of interest to their body. Our interests are identical; the boundary line should not hinder the interchange of thought, and he felt sure that his association would favorably consider any proposals that the larger body may make.

Mr. Walsh said that he could not, like the last speaker, recall the happy time had at St. Louis, but from reports made by those who were there he knew that a good time was in store for those in attendance now. He was pleased to represent his association at such a representative meeting of the craft.

W. H. Meredith said that remembering the St. Louis reception, the Canadians could not stay away. We simply had to come, and he joined his confreres in thanking them for the cordial reception accorded. He regretted that his association had not met in convention since the meeting in St. Louis to extend the same hearty reception accorded us in St. Louis. He hoped that an opportunity would be given at Winnipeg to reciprocate. Just as we followed you side by side from the Atlantic to the Pacific, so we can follow you side by side in association work. Closer union was possible, and he believed it was in the interests of both associations. His association had wonderfully increased in membership in the past year. Looking out over the hall and seeing the names suspended of the various states indicating the position of the various delegates, he said the day should not be far distant when the name of Ontario, Quebec, Nova Scotia, British Columbia and Manitoba would be hung side by side with the names of the states of the union.



The Canadian Delegates and their Wives.

W. H. Meredith. Mrs. Meredith. Fred Armstrong. Mrs. Armstrong. W. J. Walsh. Mrs. Walsh.

Membership Growing.

The reports of the officers and board showed that the U. S. was in a very healthy state, over 800 having been added during the last nine months — every state showed an increase.

A pleasing feature of the board was a clause dealing with closer relationsip between the two national associations, and to this end recommended that a committee of two be appointed to meet a like committee from the Canadian association, and report at the next meeting of the convention.

Regrets were expressed on all sides at

the conclusion reached by President Craig and Treasurer Goodman to not allow their names to go in nomination for re-election. It was felt that President Craig was deserving of another term, and in the case af Mr. Goodman, who had served as treasurer for 14 years, it was felt that he was part of the institution. However, as neither gentleman would again stand, others were elected to fill those important offices.

Officers for 1905-06.

President—C. J. Boyd, Chicago, Ill.
Vice-President — Robert P. Moodie, Dayton, Ohio.
Secretary—Charles T. Byrne, Chicago, Ill.
Treasurer — Wm. McCoach, Philadelphia, Pa.

After a number of different cities had been placed in nomination for the meeting place of the 1906 convention, and each city had been extolled as the most desirable place, Atlantic City, N.J., was chosen.

A pleasing feature of the convention was the presentation of a diamond-set gold pin to Past President Craig, as a slight token of appreciation of his valuable services during the past year, also a testimonial of $500 to retiring Treasurer Goodman. "Papa" Goodman is a prime favorite with all the delegates.

Too much praise cannot be accorded the reception and entertainment committee, including the ladies' auxiliary, for the able manner in which they performed their duties. Especial care was taken of the Canadian delegation; each one seemed to vie with the other to see that nothing was left undone to make their stay pleasant. The programme of entertainment consisted of an informal reception in the Piedmont, on Tuesday evening; a ball in the Kimball House on Wednesday evening; a trip to Ponce de Leon Park (including a ticket to the entertainment on Thursday evening), and a final wind up on Friday of a genuine old-fashioned Georgia barbecue, which, to the most of the delegates, was interesting and novel. The additional entertainment for the ladies included a tally-ho ride on Wednesday afternoon, and a reception at the home of Mrs. Mell, chairman of the ladies' auxiliary.

All in all, the convention of 1905 was the most successful in the history of the national association, and it was with regrets that farewells were said.

Notes by the Way.

The man from Hamilton was pleased to note that none of the high mountains passed en route, or the Georgia hills, surpassed — in his estimation — the "bluff" of his native city.

* * *

One enterprising firm announced that on Wednesday evening they would present each one with a ring—they certainly did, but it was the "ring" of a bell.

* * *

Ask Fred Armstrong about the "mysterious 13" club—he will make you a member on sight.

* * *

The souvenir fiends had a picnic gathering in a collection of souvenirs. Come early and often; and they certainly did.

* * *

The United Brass Mfg. Co., Cleveland, Ohio, had a fine display of plumbers' brass work in charge of a corps of elo-

EXPERIENCE

Counts in the manufacture of pipe.

Material must be right—Weld perfect—Threads accurate and full.

"M.R.M." PIPE

is made from the best material—every length is carefully tested under hydraulic pressure.

The care we take ensures goods you can depend upon.

Satisfaction is what you want—what the plumber demands.

That's the result if you specify M.R.M. Co. Brand.

The Montreal Rolling Mills Co.

THE BEST

SOUTH WALES PRODUCES

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TERNE PLATES

"DEAN" *The original brand with the coating that lasts.*

In

POLISHED CANADA PLATES

"FRONTIER"

Black, color and fine polish.

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that seams without breaking.

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Wholesale Trade Only Supplied



KERR'S GENUINE WEBER

GATE VALVES

have many imitations, but none equal the "real" article, made by us. Be sure you get "Kerr's." Every valve made of the best red metal, and beautifully finished.

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LIMITED,
WALKERVILLE, ONT., CANADA

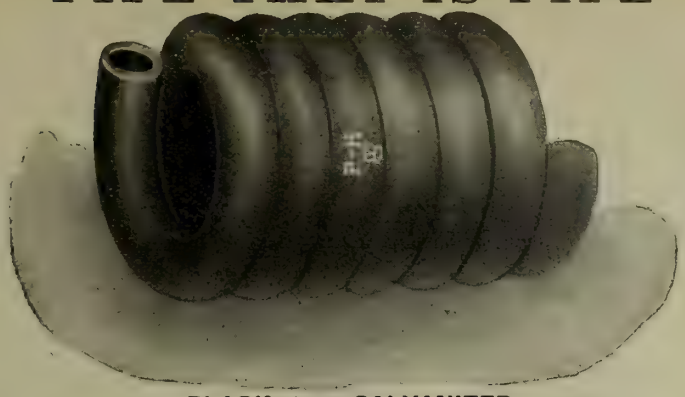
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THIS IS OUR BRAND

P-H

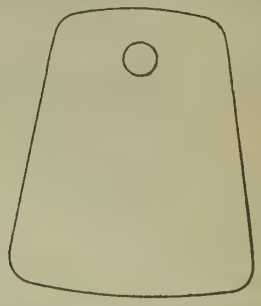
You Want It.

See that You Get It.



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CANADA PAPER CO.
TORONTO LIMITED MONTREAL

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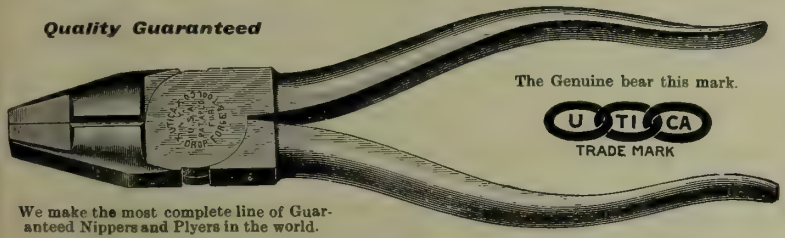


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ARE THE BEST.
Highest Quality Grooming and Sheep-Shearing Machines.
WE MAKE THEM.
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American Shearer Mfg. Co., Nashua, N.H., USA

Wiebusch & Hilger, Limited special New Yor representatives, 9-15 Murray Street.

NO. 50, LINEMEN'S SIDE-CUTTING PLYERS

Quality Guaranteed



The Genuine bear this mark.

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TRADE MARK

Ask your dealer for Utica Plyers.

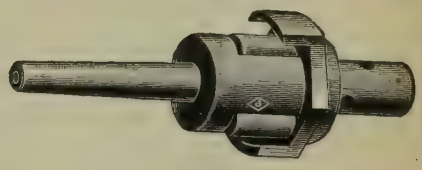
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Write for Green Book.

We make the most complete line of Guaranteed Nippers and Plyers in the world.

Factory: Utica, N. Y.
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UTICA DROP FORGE & TOOL CO.
296 Broadway, New York, U.S.A.



JARDINE'S
Self-Feeding Boiler
Tube Expander

has case-hardened body. It will outwear any Expander on the market, and it's cheap.

A. B. JARDINE & CO.
HESPELER - - - ONTARIO

SPRINGS

ALMOST ANYTHING IN THIS LINE

Small DROP FORGINGS

Submit Samples or Specifications for Prices.

THE WALLACE-BARNES CO., - - BRISTOL, CONN.

GUARANTEED
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YEARS | YEARS | YEARS
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At the Same Price
Isn't it Best to use the Kind that are

GUARANTEED
FOR
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BY
GLAUBER, CLEVELAND, OHIO, U.S.A.



SURE SALES ARE MADE
—ON—
THE ECONOMICAL HOT WATER BOILER

because it gives sure results. No shoddy material; no flimsy workmanship. I want agents—YOU.

P. GIES, Founder, BERLIN, ONT.

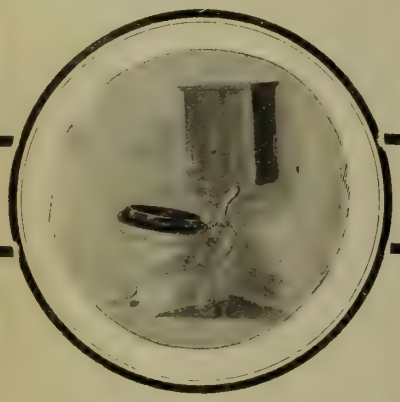


ARE YOU WIDE AWAKE

to your business interests and anxious to seize every opportunity of increasing the volume and quality of your trade?

Or are you content with a humdrum business, one that runs in a rut and shows no improvement from year to year?

Either condition may be yours; it's "up" to you to choose.



The NATURO Closet and Seat

are designed and built for the up-to-date and alert plumber who is constantly on the lookout for more business

Are you estimating on a public school or any other large job?

Figure on the NATURO Closet; its merits alone, if properly explained, will secure you the contract.

OUR BOOK WILL HELP YOU.

THE NATURO COMPANY, Salem, N.J.

C. H. MUCKENHIRN, President. S:

quent discoursers on its merits. They were Wm. J. Schoenberger, S. P. Schoenberger, H. Miller, and L. A. Stone. They presented the delegates with a fob of three medallions of different colored metals illustrating their goods.

* * *

The Glauber Brass Mfg. Co., Cleveland, had a fine exhibit of goods, the centrepiece of which was a fairy in relief on a 5 x 7 inch oval brass plaque. Glauber's "Snowball" was always in evidence with his attractive toggery and signs.

* * *

The "H. M." pin presented by the H. Mueller Mfg. Co., of Decatur, Ill., held a heavy rolled gold shield, enameled with a blue field and the "H.M." in white enamel, and in gold across the field a large Fuller cock. Phil Mueller, Fred Mueller, P. J. Murphy, W. B. Ford and M. Kirkwood explained the features of the tapping machines and the Mueller brass goods displayed in the corridor to the delegates, and stated that the line included everything in brass for steam, water and gas.

* * *

An interesting paper on "The Business End of the Plumbing Trade," presented to the convention by E. B. Hazen, Peoria, Ill., will be reproduced by Hardware and Metal next week.

* * *

One of the most interesting exhibits at the convention was that of the Naturo Co., Salem, N. J., who have developed a marvelous business in the past few months. How? A good article and shrewd advertising.

* * *

The association has over 300 members in Wisconsin. Only 12 plumbers in the state are on the outside.

* * *

Wm. Walsh, one of our Canadian visitors, announced that there is a mountain in Hamilton, Ont., 86 feet high, necessitating 120 steps to the top, up which an incline railway runs, and which is the delight of the oldest and youngest inhabitant. On Sundays and holidays the children are taken to the top to observe the beauties of the town. In fact the citizens derive their chief exercise and amusement from these periodical visits. In further describing the wonderful 86 foot high mountain, Mr. Walsh asserts that in all the churches the young women are taught that instead of eventually residing in a gold paved, harp playing, good place, that if they are real good they will be taken to the top of the mountain and shown the City of Toronto, and promised an occasional visit thereto.—Plumbers' Trade Journal.



View of Exhibit of H. Mueller Mfg. Co., at National Plumbers' Convention at Atlanta, Georgia, last week.

NEW ENAMELWARE PLANT.

PORT HOPE is to have a new factory to make enamelware, it being practically an extension of the Standard Ideal Co.'s plant, but to be owned by a separate company, capitalized at $50,000 and officered by the same directors. Mr. H. T. Bush, who has successfully managed the Standard Ideal factory, will also manage the new plant.

Work on the new buildings will commence at once, the plans including a moulding shop, 80x190 feet; a large warehouse, 50x200 feet; a mill room, 40x60 feet and probably another warehouse. Fifty men will be employed in the new works.

Large shipments have been made from the Standard Ideal factory for some time, yet the company cannot keep up with the immense number of orders coming in. There are at present one hundred and twenty-five hands employed, and the company is now manufacturing a complete line of enamelled ware.

The new offices of the Standard Ideal Co. are being completed and will be most handsome and modern. Private offices for the manager and other officials are divided from the main office with handsome stained glass. The front office is fifteen feet square and the back office 12x15 feet. A wide door is between the two offices which may be thrown open, leaving an excellent room for board meetings.

RAMSAY'S CREOSOTE STAINS

Permanent, Brilliant, Beautiful shades for staining shingles, giving that soft effect which comes only from pure creosote stains properly made. See our handsome greens. Sample set of shingles sent if you want them. The prices are right and directions simple. Let us post you fully on this line. It is becoming popular. You should know about it.

A. RAMSAY & SON COMPANY,

Est. 1842 MONTREAL Paint Makers

TRADE PENBERTHY MARK.



AUTOMATIC INJECTOR

¶ If the hardware dealer would just remember that over half a million engineers have used Penberthy Injectors for the past twenty years he would always specify "Penberthy" when placing his order. He will have goods on his shelf that will need no talking. There is no substitute.

FERROSTEEL REGISTERS

WE MAKE ALL LINES

All Cast
Modified Steel
All Steel

Quality everlastingly the best
Prices everlastingly the bottom

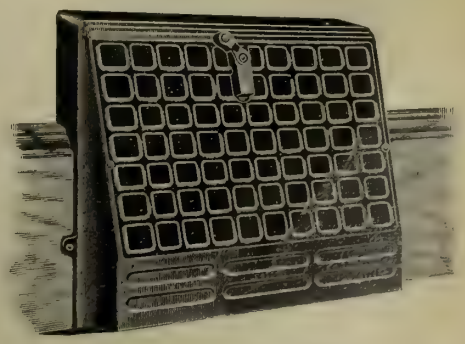
OUR
ALL CAST Are time tried and worth proven.
MODIFIED STEEL The novelty success of 1904.
ALL STEEL Almost ready and a sure winner.

THE FERROSTEEL CO., 34 Michigan St., CLEVELAND, OHIO

Wrought Steel Registers

Standard Sizes, All Finishes
Perfect Operating Device
Unusually Large Air Space
For Sale by Leading Jobbers

HART & COOLEY CO.
NEW BRITAIN, Conn., U.S.A.



H. & C. No. 100

MANUFACTURERS' AGENTS.

IMPORTERS, ATTENTION

Save money by consigning your importations direct to destination and pay through freight charges only. Have your goods cleared and distributed by

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Customs Brokers, Forwarding and Distributing Agents
Vancouver, B. C. Satisfactory service given.

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Manufacturers' Agent and Metal Broker,
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Representing British and American Manufacturers. Correspondence invited from firms wishing to be represented in Canada.

BRONZE POWDER AND LIQUID

is used by every steam-fitter. Ask your supply house for our goods for best results. Or, if they have no got them, write direct to

R. E. THORNE

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North West Machinery & Iron Co.
LIMITED

WINNIPEG, Canada

The only exclusively Blacksmith Supply and General Machinery House in the Great Canadian Northwest.

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IDEAL
Woven Wire Fencing



MAKES MONEY FOR YOU

Your customer, the farmer, wants a fence that can be put up quickly and easily just when he wants it. Hand made fences cost too much when you figure the time it takes to build them, to say nothing of the hard work.

Why not sell "The Ideal," the best woven wire fence made? You can build up a permanent trade that will pay you as much as any line you are handling. Other hardware merchants are doing it. Why not you? The Ideal will give satisfaction to your customer and make him your friend.

Have you seen the Ideal? Let us send you a sample and catalogue showing why Ideal fence made from No. 9 hard steel wire throughout is the strongest and the best value.

Ask us about the Ideal all metal farm gate.

The McGregor-Banwell Fence Co., Limited,
WALKERVILLE, ONT.
Merrick, Anderson & Co., Winnipeg, Man.
Sole Agents for Man. and N.W.T.

Plumbing Markets

QUEBEC.

Office of HARDWARE AND METAL,
232 McGill Street,
Montreal, June 16, 1905.

AN unusual feature in the trade this year is the continuation of a strong demand from the country. In other years the demand generally subsided after the rush caused by the opening of navigation, but this year, instead of decreasing, it has continued to be very active, and at present every prospect points to a strong demand until the close of the season. The better classed goods are receiving a brisker demand. This change is noticeable in the country as well as in the city. Local supply houses who have not much space for storage purposes are beginning to value such space, owing to the difficulty of securing pipe at short notice.

Range Boilers—We quote as follows: Iron clad, 30 gallon, $6, and 40 gallon, $7.50 net; copper, 30 gallon, $22; 35 gallon, $24; 40 gallon, $28. The discount on copper boilers is 15 per cent.

Lead Pipe—No change has occurred on this market during the week, and it is expected that trade will remain steady during the rest of the season. Prices are firm owing to the recent advance in pig lead, but no advance is expected. We quote: Discount 30 and 5 per cent. f.o.b. Montreal, Toronto, St. John, N.B., and Halifax; f.o.b. London, 15c. per hundred lbs. extra.; f.o.b. Hamilton, 10c. per hundred lbs. extra.

Iron Pipe Fittings—No noteworthy change has occurred on this market during the week. Discount on all sizes of nipples up to 6 inch 67 1-2 to 70 per cent.

Iron Pipe—Manufacturers are taxed to their fullest capacity in order to meet the present demand. In fact some delays have been reported during the week. Prices remain the same. We quote as follows: Standard pipe, in lots of 100 feet, regular lengths, 1-4 inch, $5.50; 3-8 inch, $5.50; 1-2 inch, $8.50; 3-4 inch, $11.50; 1 inch, $16.50; 1 1-4 inches, $22.50; 1 1-2 inches, $27.00; 2 inches, $36.00; discounts on black pipe, 1-4 inch, 62 1-2 per cent.; 3-8 inch, 62 1-2 per cent.; 1-2 inch, 72 1-2 per cent.; 3-4 inch, and upwards, 74 1-2 per cent. Discounts on galvanized pipe: 1-4 inch, 47 per cent.; 3-8 inch, 47 per cent.; 1-2 inch, 62 per cent.; 3-4 inch and upwards, 64 per cent. Extra heavy pipe of 100 feet lots are quoted as follows: 1-2 inch, $12.00; 3-4 inch, $15.00; 1 inch, $22.00; 1 1-4 inches, $30,00; 1 1-2 inches, $36.00; 2 inches, $50.00. The discount for black pipe is: 72 1-2 per cent., and for galvanised, 61 per cent.

Soil Pipe and Fittings—This market continues unchanged. Prices are firm and steady. Our quotations are as follows: Standard soil pipe, 50 per cent. off list. Standard fittings, 50 and 10 per cent. off list. Medium and extra heavy soil pipe 60 per cent. off. Fittings 60 per cent. off.

ONTARIO.

Office of HARDWARE AND METAL,
10 Front street east.
Toronto, June 16, 1905.

CHANGES in prices of many lines of plumbing supplies, particularly in brass and copper goods, are certain to be made in a few days, but we are not yet in a position to give the revised figures. As predicted last week, however, there will be a decline in most quotations, not only because of the reduced prices of raw material, but also because of American competition.

If prices were to be governed by the demand there would be an advance, rather than a drop, the call for all classes of goods being exceptionally brisk. It is a common thing to hear a plumber say he has a hundred houses ahead of him, and to back it up by placing an order for from a dozen or two baths and outfits. One order booked this week by a local supply house was for 58 baths, and a similar supply of other bathroom furnishings.

Lead Pipe—Buying continues active, with prices unchanged. We quote as follows: Lead, 7c.; lead waste pipe, 8c.; discount, 30 and 5 per cent.

Soil Pipe and Fittings—Sales continue to be very large. Prices continue steady. We quote: Medium and extra heavy pipe and fittings, 60 per cent.; 7 and 8 inch pipe, 40 and 5 per cent.

Iron Pipe Fittings—Conditions are unchanged, the volume of business being done being enormous. Our quotations are as follows: Malleable fittings 20 to 25 per cent. for American and 35 per cent. for Canadian; cast iron (standard), bushings, 65 per cent.; headers, 60 per cent.; flanged, unions, 60 per cent.; lipped unions, 60 and 5 per cent.; malleable bushings, 60 per cent.; nipples up to 6 inch inclusive, 75 per cent.

Copper Range Boilers—Business is very brisk, and prices steady. The discount of 15 per cent. continues.

Galvanized Iron Range Boilers—Large sales continue to be made, and quotations continue unchanged as follows: 12 gallon capacity, standard, $4.50; extra heavy, $6.50; 18 gallon, standard, $4.75; extra heavy, $6.75; 24 gallons, standard, $4.75; extra heavy, $6.75; 30 gallon, standard, $5; extra heavy, $7.50; 35 gallons, standard, $6; extra heavy $8.50; 40 gallons, standard, $7; extra heavy, $9.50; 52 gallons, standard, $11; extra heavy, $14; 66 gallons, standard, $18; extra heavy, $20; 82 gallons, standard, $21; extra heavy, $24; 100 gallons,

YOU CAN'T DENY FACTS!

IT'S A FACT That valves are used more or less all over Canada.

IT'S A FACT That users are becoming educated to the fact that the best valves they can get are none too good.

IT'S A FACT That the hardware dealer is the man who should supply all valve users in his neighborhood.

IT'S A FACT That he can only retain trade in this line by supplying the best valve procurable.

IT'S A FACT That Fairbanks Renewable Disc Valve is rapidly becoming the favorite with steam users from Halifax to Vancouver.

IT'S A FACT That there is no better valve than Fairbanks manufactured to-day, or none giving such general satisfaction.

IT'S A FACT That the hardware dealer who handles Fairbanks Valves is building up a lasting trade, with engineers and steam users, which brings with it many kindred lines.

We are liberal advertisers and keep our Valves continually before those who use them.

WE HELP YOU TO GET THE BUSINESS THAT PAYS YOU

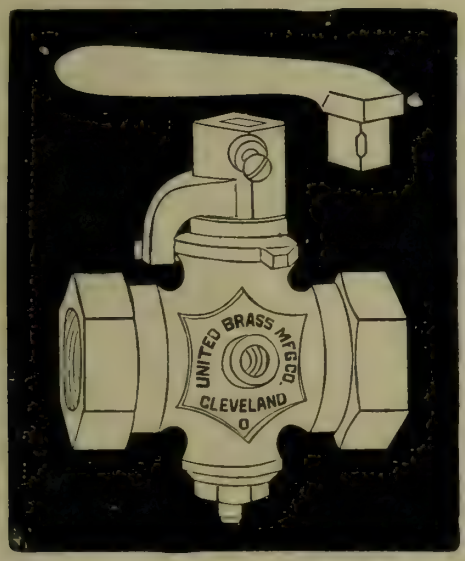
SEND FOR VALVE CATALOG

THE CANADIAN FAIRBANKS CO. LIMITED

MONTREAL TORONTO VANCOUVER WINNIPEG

UNITED COCKS

Are Installed by LEADING PLUMBERS everywhere because THEY ARE THE BEST.



We Manufacture a Complete Line of High Grade

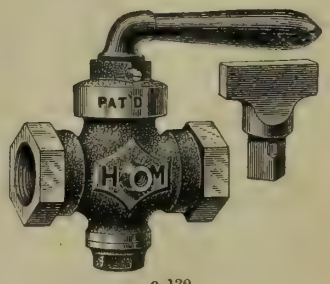
STOPS and STOP and WASTE COCKS, COMPRESSION WORK, FULLER WORK, SOLDERING NIPPLES, UNIONS, VALVES, ETC.

WRITE FOR CATALOGUE AND DISCOUNTS.

United Brass Manufacturing Co.

CLEVELAND, OHIO, U.S.A.

MUELLER STOP AND WASTE COCK



C-139

Next to fitting in, the hardest use a stop cock gets is that which falls upon the check.

The check lugs in Mueller Stop Cocks are cast solid upon both body and cap and are of extra thickness and width for strength. They are well prepared for the hard use they get in operation.

All Mueller Stop Cocks are given a 200-pound hydraulic pressure test, bear the Mueller trade mark and are *unconditionally guaranteed.*

We also make compression work and fuller work for plumbers' use. Catalogues upon application.

H. MUELLER MFG. CO.

Decatur, Ill., U.S.A. *New York, N.Y., U.S.A.*

standard, $29; extra heavy, $34; 120 gallons, standard, $34; extra heavy, $40; 144 gallons, standard, $47; extra heavy, 500.

Iron Pipe No change in prices is expected in this line. Demand is very great. We still quote as follows: Black, 1-4 inch, $2.03; 3-8 inch, $2.06; 1-2 inch, $2.29; 3-4 inch, $2.87; 1 inch, $4.12; 1 1-4 inch, $5.62; 1 1-2 inch, $6.75; 2 inch, $9. Galvanized, 1-4 inch, $2.86; 3-8 inch, $2.89; 1-2 inch, $3.14; 3-4 inch, $4.02; 1 inch, $5.77; 1 1-4 inch, $7.87; 1 1-2 inch, $9.45; 2 inch, $12.60.

Solder—The demand for goods continues steady. We quote: Bar solder, half and half, guaranteed, 19c.; wiping solder at 17 3-4c., and refined 18c.

Enameled Ware—Demand exceeds the ability of the producers to ship promptly. Stocks on hand are diminishing. We quote: Baths, rolled rim, 5 feet, 2 1-2 inch rim, 1st quality, $17.50, special, $15.50; 3 inch rim, 1st quality, $19.00, special, $17.00; 5 1-2 feet, 2 1-2 inch rim, 1st quality, $19.00, special, $17.00; 3 inch rim, 1st quality, $20.50, special, $18.50. Lavatories, discounts 30 to 40 and 5 per cent. Sinks, 18 x 30 inch, flat rim, 1st quality, $2.45; special, $2.

CONVENTION DATE CHANGED.

The Executive Committee of the National Association of Master Plumbers have, after consultation with the Winnipeg Association, changed the date of the annual convention from July 18, 19 and 20, as formerly arranged, to August 8, 9, and 10. This change was considered advisable owing to the fact that the Exhibition would be on during the July dates, and it would be inconvenient to entertain the delegates during that time.

John A. Gordon, of 301 St. Antoine street, Montreal, the national secretary, will be glad to have early notification as to the names of delegates who contemplate attending. Any information desired will be furnished by Mr. Gordon.

An urgent appeal is extended to all local associations to be represented.

SYSTEMS OF VENTILATION.

THE requirements of good ventilation and heating being understood, the choice of the best method for carrying out such requirements presents itself. While the principles have been generally understood, their application has proved to be the stumbling block over which many an architect and engineer has tripped. Natural agencies, as apparently the least expensive, have usually been called upon to produce such currents and move such volumes of air as might be required. But it will be universally admitted that all systems of so-called "natural ventilation" have proved themselves inadequate to fulfil all requirements. A dependence upon windows and doors for ventilation cannot, with propriety, be called a system of ventilation, for the supply is ordinarily spasmodic, and, without question, disagreeable, except in so far as a cold draught of fresh air from an open window may be preferable to the vitiated and odorous air of a confined apartment. Excellent results may continue for a number of days during the employment of a method of ventilation dependent upon natural agencies, but a change in the temperature or humidity, or in the direction and force of the wind, may exactly reverse the action of the system. Flues which are designed to furnish fresh air will be found to be actionless, while foul-air ducts may be bringing the foul air from other rooms. For a crowded or continuously-occupied apartment, such arrangements are utterly inadequate and are certain to prove entirely unequal to the task of supplying air in such quantity as has been shown to be required,—above all they are not positive.

Somewhat more positive results may be obtained by warming the air within the vent flues. Gas jets, steam-heated surfaces and the smoke flues from steam and hot-air furnaces, are employed for this purpose. But as the results attained are due to a lessened density of the air within the flue, and as the heat applied for thus warming and rarifying this air serves no other useful purpose, but is dissipated in the atmosphere, the method proves to be excessively expensive when the power, as measured in heat units, required to develop this movement is taken into account.

In the system of forced circulation by means of that universally-adopted machine, a fan or blower, the action is absolute and positive. The whole matter cannot be better expressed than in the words of the late Robert Briggs, a man of large experience in practical ventilation and heating: "It will not be attempted at this time to argue fully the advantages of the method of supplying air for ventilation by impulse through mechanical means,—the superiority of forced ventilation as it is called. This mooted question will be found to have been discussed, argued and combatted on all sides in numerous publications, but the conclusion of it all is, that if air is wanted in any particular place, at any particular time, it must be put there, not allowed to go. Other methods will give results at certain times or seasons, or under certain conditions. One method will work perfectly with certain differences of internal and external temperatures, while another method succeeds only when other differences exist. One method reaches to relative success whenever a wind can render a cowl efficient. Another method remains perfect as a system if no malicious person opens a door or a window. No other method than that of impelling air by direct means, with a fan, is equally independent of accidental natural conditions, equally efficient for a desired result, or equally controllable to suit the demands of those who are ventilated."

Further on in the same paper, Mr. Briggs states that "in all mechanical appliances, that is simplest which most positively and directly effects the purpose in view; and in this matter of supplying air, it may be claimed that the process of impelling it, when and where wanted, is at once the most certain and efficient, and that the fan (in its form of a rotating wheel with vanes for large uses), is the simplest and readiest machine for impelling air. It will not be attempted at this time to discuss the theory of rotary fans. The fan itself will simply be accepted as one of the recognized appliances in the construction of ventilating apparatuses, available with other mechanisms in established forms and defined types for American practice."

After showing the enormous expense of moving air by allowing it to pass over steam-heated surfaces (thus creating a difference in pressure due to a difference in temperature) compared with the expense of moving equal quantities of air by means of a fan, Prof. S. H. Woodbridge, of the Massachusetts Institute of Technology, states that "among the many mechanical devices for the movement of air through the channels, none are so economical of power and convenient in use as the fan." A practical illustration will best serve to prove the force of this statement. A vent flue, one square foot in cross sectional area and 40 feet high, is arranged to withdraw air from a room having a temperature of 70 degrees, while the outdoor air is at 20 degrees; the flue being provided with an accelerating coil, which heats the air within to 90 degrees. By the ordinary methods of calculation it may be shown that the theoretical velocity of the air thus produced in the flue will be 1,149.4 feet per minute, and that there will be expended for its movement 394.6 heat units. A fan, on the other hand, would theoretically require to produce the same air movement, only .703 units of heat. But these figures are purely theoretical, and the efficiency of the two methods must enter to give the true relation.

Assuming for the flue an average efficiency of 60 per cent., there will actually be required for this method 657.7 units of heat. On the other hand, making the fair assumptions that of the heat units in the fuel 70 per cent. is delivered in the form of steam, that this steam is utilized in an engine having an efficiency of only 10 per cent., while the fan driven thereby turns into useful work only 25 per cent. of the power delivered to it by the engine, the combined efficiency of the system will be reduced to 1.75 per cent., calling for a heat expenditure of 40.17 units. Even under this practical condition, it appears that the movement of air by aspiration still requires 16.37 times as much heat (which is simply a measure of the coal bill), as a fan producing the same results. Of course a change in the conditions will affect this relation to a reasonable extent, but it is certainly evident that the thermal or aspiration system requires more fuel than the fan under all practical conditions as they exist in any system of heating and ventilation.—Extract from Treatise on Ventilation and Heating, B. F. Sturtevant Co., Boston, Mass.

PLUMBING GOSSIP.

Mr. Norris, of Norris & Lockhart, plumbers, Galt, visited Toronto during the past week.

Mr. Will Gourlay, St. Catharines, called on the plumbing trade in Toronto this week.

The Stevens Mfg. Co., London, have changed their firm name to the Canada Brass and Supply Co.

R. C. Blayney, of the Oshawa Steam Fittings Co., called on Hardware and Metal in Toronto on Thursday.

Mr. Frank E. Read has resigned his position with M. & L. Samuel, Benjamin & Co., to engage in the business of plumbing and heating with his father, under the firm name of Read & Co., Toronto.

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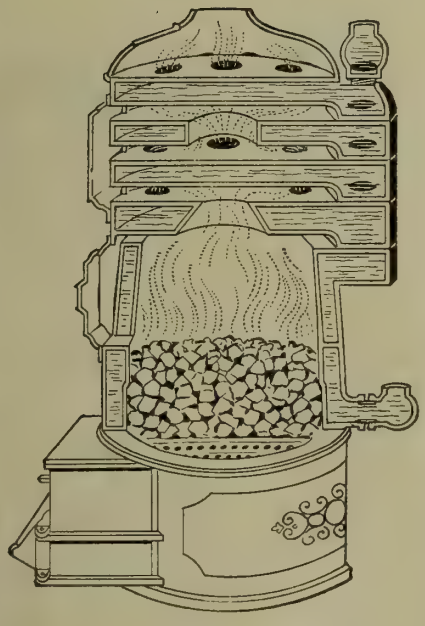
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The entire boiler is iron and steel. Instead of using rubber washers, which lose their elasticity and cause leaks, we make all joints in the boiler iron to iron with steel push nipples which are practically indestructible.

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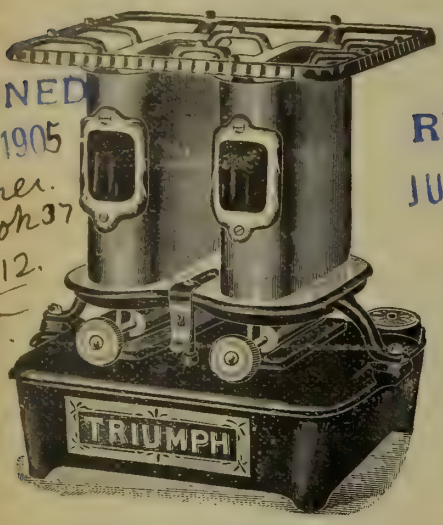
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The Gurney Standard Metal Co., Limited, Calgary, Alta.

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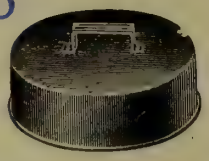


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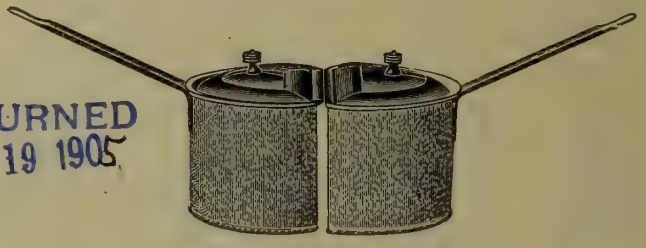
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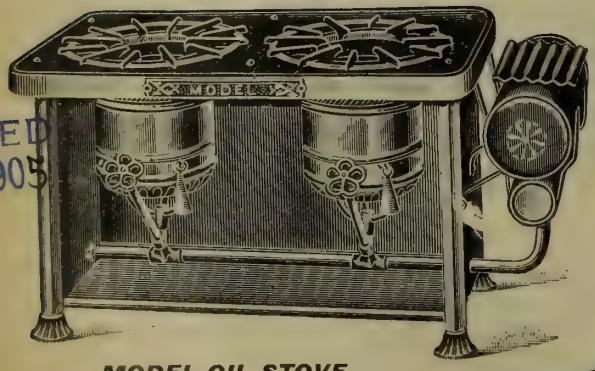
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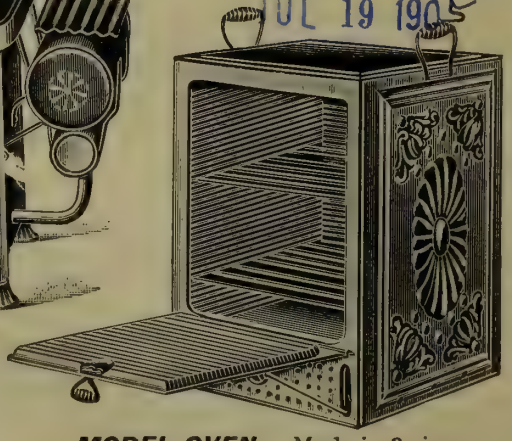
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ADVANTAGES OF ASSOCIATION.

A REPORT is given in this issue of the recent convention of plumbers at Atlanta, Georgia, at which representatives of the Canadian association were present. The incident is worthy of note as it shows that not only are Canadian and American master plumbers working together with the best interests of the trade at heart, but they are prepared to travel thousands of miles in order to fraternize.

When will the other branches of the hardware and metal trades in Canada learn to organize as thoroughly as the plumbers have done? Great credit is due progressive westerners for their live organization in Manitoba and the Territories, but there is great need for closer organization in Ontario aad the Eastern Provinces.

With a compact organization and a live secretary, united opposition could be offered to such a proposition as a postal express service, which may be established at any time owing to the influence of the departmental stores.

Such an organization could also do much to force the repeal of such laws as those recently passed in the Quebec and British Columbia Legislatures. Every restriction put upon travelers is an added burden to the merchants and the consumers they sell to.

Manitoba retailers will get together during the Winnipeg Exhibition in July. Would this not be an opportune time to take up the matter of better organization with a view to holding conventions at the time of the exhibitions in Toronto, Montreal, St. John and Halifax?

The columns of Hardware and Metal are open to any correspondent who desires to discuss the question of organization. Whether all retailers should be in one association or whether all hardwaremen should be formed into one body is a problem for debate. The Hardware Dealers' Associations in the Northern and Western States are strong and successful organizations. Cannot Canadians learn something from their experience?

AMERICANS WATCHING QUEBEC.

MANUFACTURERS and trade journals in the United States are watching the recent travelers' tax law in Quebec with much interest, and their comments are anything but favorable regarding the narrow spirit displayed in drafting the law. It is certain, also, that English exporters will join in the condemnation as, while fair-minded manufacturers in both countries are willing to pay a fair license fee in order to do business in any market of value, the present law cannot be looked upon in any other way than as an extortionate and troublesome piece of legislation.

One American manufacturer had intended visiting Quebec this month, but before doing so wrote Hardware and Metal for complete information. In his letter he states that "it would seem that I would be prohibited from making my annual visit to our jobbers in Montreal and Quebec. While, of course, this trip is made with the view of rounding up such business as may be possible to obtain at the time, my trips have heretofore been more particularly to keep in touch personally with the jobbers at these points. It seems a good deal of hardship that we should be penalized to such an extent for wishing to foster the pleasant trade relations we have established at these two points. We suppose we can be duly grateful that they have not cut us out of Toronto," etc.

While the law went into force some weeks ago, no fines have as yet been imposed and, providing samples are not carried, it would be difficult to prevent business being done by such a representative unless the Government provided stenographers to take down all the conversations between his customers and himself.

Many foreign travelers are endeavoring to escape the tax by taking desk room and offices, but the nature of their business and length of their lease are subject to investigation and if, as is mooted, some of the resident manufacturers' agents join with the authorities in enforcing the law in the hope of holding up foreign firms for high commissions, it will be difficult for the drummers to escape the tax unless they keep their samples at Ottawa and influence their customers to cross the border into another province to place their orders.

Those who escape the tax by establishing offices are met by two other forms of taxation. Every office holder is subject to an annual tax of $50, and every representative of a limited stock company is levied upon to the extent of a tenth of one per cent. of the capital spent by the company in carrying on business in the province.

With Quebec imposing a tax of $300 annually on travelers representing "foreign" houses, and prohibiting the doing of business by catalogue, etc., and with British Columbia charging an annual fee of $100, and Prince Edward Island taxing commercial men $20 per annum, it is high time that the Federal Government took action and if it is found that the Provincial Governments are within their rights in erecting high tariff walls around their boundaries, that uniform action be taken and extortionate taxes and preposterous conditions excluded from this class of legislation.

WATCH FOR ADULTERATION.

ADULTERATED linseed oil is an article which should be watched for by every dealer who wishes to preserve his reputation for high-class goods. Inferior mineral oils of a character injurious to the paint, and some inflammable and highly dangerous, are used in the adulteration.

With the present advancing prices of genuine oil there is great temptation to adulterate and cheapen the oil. Reliable reports state that much of the questionable article is on the market, and it therefore behoves the merchants to exercise care in buying from any but the recognized reliable houses. A glib-tongued salesman or a smoothly-worded letter offering oil at prices below our market quotations may look good to the probable buyer, but the supposed saving of a few cents a gallon may lead to the loss of hundreds of dollars in the long run if the article is bought and turns out to be adulterated. To ensure safety every dealer should know the source of his oil supply, and this can only be done by dealing with reliable houses.

NEW CORDAGE FACTORY.

IT is definitely announced that the Plymouth Cordage Co. have decided to establish a Canadian factory and have made a payment on an option for a suitable site at Welland, where arrangements have been completed for a fixed assessment for 20 years and other concessions. The company propose to invest about $1,000,000 in plant, buildings, wharfs, etc., and will employ 500 or 600 men, and it is understood that in addition to the cordage mills, other factories will be established on the same site by those interested in the cordage company.

This move is significant at a time when practically all the smaller twine factories in Canada have been forced to close down owing to the price-cutting of the Harvester trust. It appears to give strength to the report that the Dominion Government has at last decided to impose a duty on binder twine and cream separators. If a duty is established it will be somewhat tardy justice to the Canadian manufacturers, but it will be none the less acceptable to them and to those who are interested in the development of this industry in Canada.

TAXING COMMERCIAL TRAVELERS

THE Act imposing a tax on non-resident commercial travelers having no place of business in Canada, which recently went into force in Quebec, is on account of the ambiguity of certain of its clauses causing no end of dissatisfaction among the trade. For instance, one section of the Act says that "any person not residing in the province who is desirous of acting as a commercial traveler by soliciting or taking orders for, or selling goods, wares, or merchandise other than intoxicating liquors, or by advertising or offering such goods for sale, by sample, catalogue, price-list, for a person, firm or corporation having no place of business in Canada, shall first obtain a license therefor from the collector of provincial revenue from the district in which he begins his operations in the province."

An enactment of so sweeping a nature has rightfully called forth the indignation of a large share of the business community of Quebec, who, partial as they may be to Canadian manufacturers, do not relish the notion of having any restriction placed upon free trade communication with other countries. Enquiries have poured in to the Comptroller of Provincial Revenue, who in turn interprets the "mischievous" clause as not applying to the transaction of business "by correspondence," although it does make liable non-resident travelers of foreign firms coming into Quebec to do business.

It need hardly be remarked that the restrictions on the whole are without precedent. To prohibit foreign business houses not represented in Canada from sending samples here or catalogues, or price-lists, and to say they shall not advertise in a Canadian newspaper unless they get out a license costing three hundred dollars a year is sure to meet with opposition from the home as well as the foreign trade. It would seem further, that to the framers of the law there is something to be gained by business correspondence, exclusive of the use of price lists, catalogues, etc., although how it obtains is not apparent to the trade generally.

CANADA TOO CONSERVATIVE.

IT is to be hoped that Canadian exporters will not be unduly long in learning to profit from the advice of the commercial agents stationed by the Dominion Government in the great export centres of the world with a view to building up Canada's foreign trade. Our manufacturers have been accused again and again of being woefully slow in adapting themselves to the requirements of foreign markets as well as lacking in enterprise in following up an opportunity once it is created. If one is to judge from the latest report of J. S. Larke, commercial agent for Australasia, there is still much room for improvement on this score. He says: "The usual crop of complaints has reached me this month. One is in reference to the old complaint of improper packing. A number of machines were ordered with definite instructions as to how they were to be packed. In due course an invoice was received with a covering letter stating that the instructions respecting packing were absurd, that they had made a study of it and had shipped in the manner they had found to be right. When the goods arrived half of them were found to be broken. Had the instructions sent been followed, the loss would have fallen upon the buyers, but under the circumstances it must fall on the shipper. It must be borne in mind that while Australians may occasionally make mistakes in their directions, they have had a much greater experience in the requirements for long ocean voyages than the majority of Canadians and their instructions are based upon this experience.

"Another is the refusal to meet the market. A Canadian manufacturer was assured of a good trade in boots and shoes if he changed his shape a little. He declined to do so.

"In another instance an article was getting fairly introduced with excellent prospects before it, but it was cutting into the trade of a United States manufacturer. The latter launched into liberal advertising, and not only regained his trade, but now has a very large share of it. The Canadian firm refused to expend any money in this way and has lost his trade, though his goods were right and his prices below the successful rival. Buyers admit this, but say 'people ask for the other and we must sell what they want.'

"In one instance a failure was due to shipping goods made of inferior material and much below samples. In another case it was a refusal to reduce prices when others did so. In some of these instances this state of things was accompanied by sharp comments upon the incapacity of the agent, as otherwise he would have secured a large trade. In some cases this is undeserved, as the agents have done their best. A Canadian would be unwise to do business if he cannot see a profit in it, and he has the right to say that he will only do it upon his own terms, but he should not be disappointed if he fails to meet with success when he declines to meet the conditions essential to success."

DISCRIMINATING AGAINST CANADA.

A SHORT time ago reference was made in this paper to a report that the direct steamship line sailing from Canada to South Africa was discriminating against Canadian shippers in favor of U.S. exporters.

The explanation of this irregularity would seem to be that there are several American exporting firms who have agents in Canada. These buy Canadian produce and ship the same to South Africa under their own American designation, when, in reality, it is of Canadian origin. Again, contractors are required under Government contract to give Canadians ten days preference, but Canadian shippers, it is claimed, engage space and, being unable to fill it, often sell their space to American exporting firms, and, of course, the steamship companies cannot refuse such cargoes. Up to within a short time ago, the steamships went out with half and three-quarter cargoes, and had it not been for the American produce shipped to South Africa from Chicago the Government would have been required to pay a much heavier subsidy to maintain the line than they have. As yet there is absolutely no return cargo. Within the last few months, however, every ship has gone forward with a full cargo, and all the Canadian traffic offering has been accepted.

Nearly all the large American exporting companies have distributing agents in South Africa. Canadians have not, and doubtless it would appear to one

in South Africa that practically all the business is being sent forward by American firms as American produce. Speaking roughly, it is estimated that at least half the Canadian produce sent to South Africa goes from United States exporting firms, who buy in Canada.

PLACER MINING REVIVAL.

ACCORDING to reports this season is seeing a great revival in placer mining on the Fraser River in British Columbia, the low water in the river affording an opportunity for working the bars in the river which were so productive in the early days of the western province.

Ever since 1858 the waters of the Fraser have been running high every year under the pressure of heavy snow on the mountains, and all the large placer mining bars have been covered with water all the year round. Several carloads of machinery are en route to Yale, B.C., which will be used in up-to-date placer mining on Boston and China placer bars, while the Seattle Steel Co. will operate a double pump on Boston bar at the outlet of Little Siwash Creek. An endeavor is being made by a Vancouver company to secure mining rights on New York bar, which lies at the old outlet of Big Siwash Creek, on which the low-grade ore mines being worked by the Mount Baker and Yale Mining Co. and the International Mining Co. are situated.

The whole side of the mountain opposite Yale is lined with flumes all leading down to the three big bars in the Fraser, and which will be used to make the Fraser give up her stores of gold which have accumulated since 1858. The Town of Yale is beginning to pick up again, and her population has increased several hundred.

MERCHANTS AS SALESMEN.

WHAT kind of a salesman are you? asks the Hardware Trade. Are you one of the indifferent kind, or have you some enthusiasm for your line and for your brands? When, after watching proceedings from your desk, you walk up behind the counter to assist the clerk in clinching a sale, how do you go at it? These are simple questions, but they are worthy your best thought.

Think about yourself. Analyze yourself. What effect does your manner have upon the customer, and greater than this, what effect does it have upon the clerk?

Too many of our merchants are indifferent salesmen. There is about as much enthusiasm and magnetism to them as there is to a fence post. How can they enthuse a customer to the point of buying? How can they fill a clerk full of that enthusiasm which means so much for the store?

One reason why high-grade goods stay on the shelves in so many stores is that the atmosphere of the store is absolutely dead. Enthusiasm is the basis of salesmanship. Without it you would not get the results in this day and age when competition is so fierce.

For one day size up the men who come to your counter to sell you goods, observe carefully, and at night compare notes. You will find that some of these men impressed you mightily with what they had to say. Maybe one was a scale salesman, charged so full of enthusiasm for his scale that any objection you could offer would not for a moment stem the tide of his enthusiasm. He simply could not see how you could do business without his scale. Then there was the other type,—the fellow who asked you whether you wanted anything in his line. Of course, you didn't, and he went on to the next place.

Between them were what you might call the happy mediums. Some of them were so confoundedly happy they couldn't sell any goods. Some were partially successful because they were partially filled with enthusiasm.

Have you any scale salesman among your clerks? If you have you are in luck. Don't let them get away from you. It is not likely that you have any. Can you develop any of your men into the scale salesman type? There is your task. Think on these things.

The results you get from your business machine depends upon how well it is worked. You may be getting fair results from your business now. You can double those results by keeping your clerks charged to the limit with faith in you and enthusiasm for the business.

Yes, it is hard game. So is everything we tackle in this world. You may not be able to accomplish all you would like to in this direction, but you can accomplish something, and every little counts.

PROFIT.

PROFIT, like the bustle, is a thing of the past. It was originally invented so that those who wished to work might make a living. But nowadays anyone found making a profit must either hand it over to Government under the name of income-tax, or is summoned under the Secret Commissions Act. If he escapes these his profit is dragged from him to provide for those who are willing to work but won't, called "the poor." Hence that beautiful ballad which has just come out, entitled "It's the poor that helps the poor." Everybody is pleased with that song because everybody thinks it's meant for him. Some folks would like profit to come into fashion again, but others won't have it back at any price. As for the latter, if they get enough to pay their expenses that's all they want, and they'll take good care no one else gets any more.

One blithering idiot can spoil the profit of a whole town. He's generally a sad, unhappy-looking creature, who prides himself on having "no style." He peeps in his opponents' shop-windows and cuts everything except his own throat, which is the one thing the others would like him to cut. He does a big trade, lives on his "turnover," and ruins those who struggle to live on profit. There is no need to say much about his popularity. Associations have been formed to try to revive profit, but many ironmongers although members of such associations, still think it rude of an association to "dictate" to them at what price they shall mark their goods. Journalists always write of "these times of keen competition" (how I loathe the phrase!) when they ought to write "keen lunacy." If there is a big contract in a town the man who loses most gets it.

Manufacturers are now trying to make out lists with such a small margin of profit that the "idiot" shall not be able to cut prices any more, but up to now the idiot wins. He gives the public a small fee to come and buy some of his goods at cost price, and he spoils all the fun for the manufacturer and everyone else. That is called a "leading line." They are very nice things, are "leading lines." They were introduced to lead the public to buy other things at that shop. But the public nowadays knows a thing or two, or even three. The public as a rule is in business itself, and understands all about these things. So it goes about, does the public, buying "leading lines" where it can get them, and nothing else; and hence it comes to pass that every tradesman says that he is doing lots of business but making nothing.

Everybody is supposed to work for profit, but until everybody realizes that the fruits can only be reaped by the combination of the whole of a trade, nobody will get any. But if the same article were the same price all over the town the public would be satisfied, and would go to the tradesman whose "manners" and stock they liked best.

Pleasing customers is an art; selling at cost is what any empty-headed imitation of a man can do, especially if he has some one else's money to do it with.

Shilling things nowadays sell at 8d to 10d, half-crown things at 1s. 11d. Contracts which work out at £50 cost are let at £45, including a lot of cheek from the foreman.

I wonder if a time will come when we shall be able to ticket an article, "This article is worth half-a-crown, our price is two-and-six," and sell the goods?—A. R. T., in the Ironmonger.

MARKETS AND MARKET NOTES

(For detailed prices see Current Market Quotations, page 62.)

Quebec Hardware Markets.

Office of HARDWARE AND METAL,
232 McGill Street.
Montreal, June 16, 1905.

OWING to a misrepresentation, the conditions concerning screws and barb wire on the local market, as obtained, were not exactly correct, and owing to this a change in condition is prevalent. Local manufacturers claim that they are in an excellent position to fill all orders for barb wire and screws. Some manufacturers of wire nails are also shipping orders on time, while others, for some unknown reason, are delaying business to a small extent by their apparent inability to fill all orders for immediate shipment. Orders, in general, continue to arrive quite freely, but it is noticeable that the market has assumed a steady gait which is only natural at this time of year.

Axes—Very few orders are going forward at present, although numerous ones are being received for later shipment. Prices continue unchanged. We quote: Chopping axes, unhandled, $6 to $9.50 a dozen; double bitt axes, $9.50 to $12 a dozen; handled axes, $7.50 to $9.50; Canadian pattern axes, $7.50 a dozen.

Handles—No decided change has occurred during the week. The demand continues to be fair, and with the steady price prevailing the market is expected to continue uneventful for some months to come. We quote: Axe handles, No. 3, $1.25; No. 2, $1.50; No. 1, $1.90 a dozen; adze handles, 34 inch, $2.20 a dozen; pick handles, No. 2, $1.70; No. 3, $1.50 a dozen.

Sewing Machines—Trade on this market continues to be quiet, and is expected to remain so until the Spring season of next year. No change has occurred on the price list, and conditions in general have a tendency to continue steady. We quote: Hand sewing machines, $11 each net; complete machines with stand, $18 and up, according to quality.

Lanterns—Although very few orders are going forward, numerous inquiries are being received, and during the week some excellent orders have been booked, shipments to take place late this Fall. Prices are steady. We quote the following: Cold Blast, $4.50; No. 0 Safety, $3.50.

Barb Wire—Eastern manufacturers are holding large supplies on hand, and it is estimated that the market of this year will be free from delays. Large shipments are continually going forward, and trade has a very bright aspect. Our quotations are as follows: $2.75 for 100 lbs. f. o. b. Montreal; $2.37 1-2 f.o.b. Cleveland. Carlots of 15 tons, $2.25 f.o.b. Cleveland.

Fence Staples—With the exception of a good movement in the forwarding of orders, trade conditions remain the same. Prices are firm and steady. We quote as follows: $2.65 per 100 lbs. keg, for bright, and $3 for galvanized; 25 to 50-lb. packages 25c. extra.

Rivets and Burrs—Although no large orders have been booked within recent days, these goods have a very good movement, owing to the fact that nearly every order which is being booked calls for a small amount. We quote as follows: Best iron rivets, section, carriage and wagon box, black rivets, tinned do., copper rivets and tin swede rivets, 60, 10 and 10 per cent.; swede iron burrs are quoted at 60 and 10 and 10 per cent. off new lists; copper rivets with the usual proportion of burrs, 45 per cent. off; and coppered iron rivets and burrs in 5-lb. cartoon boxes at 60 and 10 and 10 per cent.; copper burrs alone, 30 and 10 per cent., subject to usual charge for half-pound boxes.

Screws—Trade in some sizes is exceptionally good, but in the sizes which are not so generally used it has a tendency to be quiet. On the whole it is not as good as might be expected. Prices are steady and are inclined to be firm. Our quotations are as follows: Round head, bright, 82 1-2 per cent.; flat head, bright, 87 1-2 per cent.; brass, round head, 75 per cent.; brass, flat head, 80 per cent.

Bolts and Nuts—The demand for bolts and nuts this Spring has been good, and up to date the sales show a substantial increase over last year. As the machinery manufacturing trade is being carried on on an extensive scale the demand is expected to continue brisk.

Wire Nails — Shipments, generally speaking, are going forward freely, although it has been estimated that one or two of the smaller manufacturers are causing a slight delay. Prices are firm. We quote: $2.25 a keg f.o.b. Montreal.

Cut Nails—No change has occurred on tihs market during the past week. A fair demand still continues to be prevalent. Our quotations are as follows: $2.20 a keg f.o.b. Montreal.

Horseshoes—Owing to this being a dull season the demand has weakened to a noticeable extent within the past few days. Trade is expected to continue quiet until later on in the Summer. No change has occurred on the price list. We quote as follows: P.B. New Pattern, base price, $3.50 per 100 lbs.; M.R.M. Company latest improved pattern iron shoes, light and medium pattern No. 2 and larger $3.65, No. 1 and smaller $3.90, snow pattern, No. 2 and larger $3.90, No. 1 and smaller $4.15. Light steel shoes, No. 2 and larger, $3.90, No. 1 and smaller $4.15; featherweight, all sizes 0 to 4, $5.50; toe weight, all sizes 1 to 4, $6.75. Packing—Up to three sizes in a keg ten cents per hundred pounds. More than three sizes twenty-five cents.

Horse Nails—No change has occurred on this market during the week.

Sporting Goods—Now that the general sporting season has begun, the demand for ammunition, shot guns, and rifles is beginning to be of a more extensive nature. Prices have become firmer, although no advance is anticipated. We quote the following: Canadian-made shells, black, 25 and 5 per cent.; smokeless, 25, 10 and 5 per cent.; American centre-fire cartridges, list net; sporting and military, 10 per cent. advance on list; primers, $2.05 per thousand; American loaded shells, 20 per cent. discount; B.B. caps, $2 per thousand; standard shot, $6.50 per hundred lbs.; chilled, $7 per hundred lbs.; buck and steel, $7.50 per hundred lbs.; ball, $8 per hundred lbs. We quote discounts 15 per cent. on shot f.o.b. Montreal, Toronto, Hamilton, London, St. John and Halifax.

Building Paper—An active demand continues to be the most prominent feature on this market. Prices are very firm, and although everything points to an increase in the demand no change is expected to occur in the prices.

Cordage—Binder twine is beginning to have a better inquiry, and during the week some good orders have been booked. Trade in rope and small cords is also active, but the orders are not as large or numerous as they were at an earlier period in the season.

Cement and Firebrick—During the week two Canadian manufacturers of Portland cement have reduced the price of the product. This reduction is in the neighborhood of ten cents per barrel. Local dealers are awaiting the move on the part of the other manufacturers, but as yet nothing can be learned concerning the future position of this product. Large amount of firebrick are arriving from the British Isles. Our quotations are as follows: English cement, $1.80 to $1.90; Belgium, $1.60 to $1.90 per barrel; ex-store, American, $2.00 to $2.10 ex-cars; Canadian Portland, $1.90 to $2.00. Firebrick, English and Scotch $17 to $21, American $30 to $35.

Coil Chain—Beyond a fair demand no change has occurred on the market. Prices continue to remain firm. We quote: 5-16 inch, $4.25; 3-8 inch, $3.75; 7-16 inch, $3.55; 1-2 inch, $3.35; 9-16 inch, $3.30; 5-8 inch, 3.20; 3-4 inch, $3.05; 7-8 inch, $3; 1 inch, $2.95.

Green Wire Cloth—The trade has become much quieter, but as this is generally usual no great amount of interest has been exhibited over this change in the conditions. We quote: Per 100 square feet, $1.50.

Poultry Netting—There still continues

to be a scarcity in poultry netting, and it is very difficult to obtain some sizes. Discounts for two inch nineteen gauge standard, and sixteen gauge extras, at 60 per cent.; finer meshes, 55 per cent.

Spring Hinges—The demand still continues to be active. Although prices are firm, no advance is anticipated. We quote as follows: No. 5, $7.25 per gross; No. 19, $18 per gross; No. 20, $18.80 per gross; No. 120, $20 per gross; No. 51, $9.25; No. 50, $27.50.

Apple Parers—A few inquiries are being received, but the trade in general is much quieter than it will be a few months hence. Our quotations are as follows: Little Star, $4.85; Hudson, $5; Rocking Table, $5.25; Turn Table, $6; Canadian, $4.50.

Ontario Hardware Markets.

Office of HARDWARE AND METAL,
10 Front Street East.
Toronto, June 16, 1905.

LAWN mowers and garden tools are still moving actively, the lateness of the grass-growing season giving this trade an extended term of activity. Farm tools, such as forks, rakes and hay carriers are also being disposed of in large quantities, while wire goods continue in strong demand.

Plated flat ware and steel goods have had an excellent sale for June wedding presents, and other lines of cutlery are moving satisfactorily.

Nails, screws, bolts and nuts, etc., are being called for steadily in small lots, many merchants finding it necessary to send refilling orders in order to meet the strong demand in building and industrial circles.

With the exception of an advance in cement, owing to the immense demand and possible shortness in supply, no changes in quotations are recorded.

Lawn Mowers—A brisk demand is still reported for lawn mowers, grass catchers and lawn tools.

Sporting Goods — Fishing tackle and camping outfits are selling well, but little is doing in guns and ammunition.

Washing Machines — Demand for machines is normal.

Chain—Trade is falling off somewhat. We quote: 1-4 inch, $6.50; 5-16 inch, $4.45; 3-8 inch, $3.85; 7-16 inch, $3.70; 1-2 inch, $3.55; 9-16 inch, $3.45; 5-8 inch, $3.35; 3-4 inch, $3.25.

Step Ladders — Business continues satisfactory. We quote at 10c. per foot for 3 to 6 feet, and 11c. per foot for 7 to 10 feet ladders.

Extension Ladders — Movement of goods is fairly large. Waggoner, 40 per cent. off list.

Galvanized Wire—Trade is reported active. We quote: $2.37 1-2 f.o.b. Cleveland.

Poultry Netting—A strong demand for poultry netting is reported both from city and country stores.

Barb Wire—Demand continues strong for barb and coiled spring wire.

Wire Nails—Demand for nails continues active, with no shortage in the supply. Nominal quotations are $2.25 f.o.b. Toronto.

Cut Nails—Demand continues active, and prices remain firm. Quotations are $2.40 per keg f.o.b. Toronto.

Horseshoes—Trade is reported good for this season. We quote as follows: "P. B." base, $3.65; "M.R.M. Co., latest improved pattern" are: Iron shoes, light and medium pattern, No. 2 and larger, $3.80; No. 1 and smaller, $4.05; snow No. 2 and larger, $4.05; No. 1 and smaller, $4.30; light steel shoes, No. 2 and larger, $3.95; No. 1 and smaller, $4.20; featherweight, all sizes, 0 to 4, $5.50; toe weight, all sizes, 1 to 4, $6.75. If shipped from factory 15c. less.

Horsenails—Demand is normal and prices remain unaltered.

Screws—Trade continues satisfactory with no change in prices.

Rivets and Burrs—No decrease in the demand is reported, while quotations continue the same.

Bolts and Nuts—Dealers are able to meet the active demand, as stocks are fairly good. Quotations are unchanged.

Cordage — Country merchants have practically secured all their stocks of twine. Trade in cordage is very fair. Our quotations are as follows: Red Cap, 11 1-2c.; Tiger, 10 1-2c.; and Standard, 9 1-2c.; Cordage: manila, 15c.; British manila, 11 1-2c.; sisal, 10 1-2c.; double lathyarn, 10 1-2c.; single lathyarn, 10c.; sashcord, "Hercules," 30 to 32c.: "Star," 36 to 38c.; cotton twine, 3-ply, 24c.; 4-ply, 29c.: calking cotton, 16 1-2 to 17c.: cotton waste, colored, 6 3-4c.; white 11 to 13c.

Cement—An advance of about 10c. has been made. We quote as follows: For carload orders f.o.b. Toronto, Canadian Portland, $1.85; American Portland, $1.85 to $1.90. For small orders ex warehouse: Canadian Portland, $2 to $2.10; American Portland, $2 to $2.10.

Firebrick—Stocks are being enlarged by importations. Prices are firmer. We quote: English and Scotch firebrick, 27 to 30c.; American low-grade, 20 to 25c.; high-grade, 30 to 35c.

Building Paper—A large volume of trade is being done both by jobbers and merchants. No changes are reported.

Hides, Skins and Wool—There is not much activity in the market this week, and prices continue as last advised. Receipts of new clip wool have been light, partly on account of the wet weather, and partly because smaller buyers in the country are picking up offerings, believing in the speculative possibilities of the situation and offering higher prices. We quote the following:

Hides, No. 1 green steers, per lb		0 10
" " 2 " "		0 09
" No. 1 green, per lb		0 09½
" " 2 " "		0 08½
Country hides, flats, per lb	0 08	0 08½
Calf skins, No. 1, selected		0 11
" " No. 2		0 09
Deacons (dairies), each		0 80
Sheep skins		1 25
Lamb skins, each		0 30
Shorn pelts "		0 25
Rendered tallow, per lb	0 04	0 04½
Unwashed wool, new clip, per lb		0 14
Wool-washed fleece		0 22
Pulled wools, super, per lb	0 21	0 23
" " extra "	0 22	0 24

Canadian Metal Markets.

A GENERAL quietness prevails on the market and orders are gradually becoming smaller and less frequent. As in years gone by, the hot weather is directly, or indirectly, the cause for this suspension from active business. Although business is not actually suspended, it is expected to continue somewhat quiet until the middle or end of August. Prices are all steady with the exception of pig lead, which has advanced five cents during the week.

Stocks in Toronto are now fairly large and shipments of goods should be made without much delay. A good trade is being done in the various metals, all being strong in price, with the exception of copper.

QUEBEC.

Office of HARDWARE AND METAL,
232 McGill street,
Montreal, June 16, 1905.

Pig Iron—Canadian pig iron is coming into more prominence each day. This, of course, decreases the sale of the foreign brands, and sales for this year are somewhat smaller than they were last year. Prices on Canadian pig iron are firm, but no advance is expected. We quote the following:

"Disc," No. 1	$16.50	delivered	Montreal.
"Dom.," No. 1	17.50	"	"
Usual difference in price for lower grades.			
Ferrona No. 1	$18 00	delivered	Montreal.
" No. 2	17.50	"	"
" No. 3	16 50	"	"
" No. 4	16.00	"	"
Londonderry	$18.50 to $19.00	"	"
Glengarnock	18.25	"	"
Gartsherrie	19.25	"	"
Carnbroe	18.50	"	"
Carron No. 1	19.00	"	"
" (special)	18.00	"	"
Ayresome No. 1	18.25	"	"
" No. 3	17.50	"	"
Summerlee	18.50 to 19.00	"	"
Clarence No. 1	17.50	"	"
" No. 3	17.00	"	"
No. Cleveland	17.50	"	"

Bar Iron—No change has occurred on this market during the week. Conditions have become easier, and it would not be surprising if a decline occurred during the next few days. Our quotations are as follows: Merchant bar, $1.80; horse-shoe iron, $2.02 1-2; forged iron, $2.05; best refined iron, $2.20 net cash thirty days.

Tool Steel—This market has assumed a steadier gait. Orders are not arriving as frequently, and it is expected that trade on this market will remain quiet for some time. Our quotations are as follows: Colonial and Black Diamond, 8c to 9c; Sanderson's, 8c to 45c, according to grade; Jessop's, 13c; Jonas & Clover's, 10c to 20c; "Air Hardening," 65c per lb.; Conqueror, 7 1-2c; Conqueror High Speed steel, 60c.

Merchant Steel—This is a quiet season, and as a result orders have decreased considerably during the past few days. Prices have become somewhat easier, but no change is anticipated. We quote as follows: Sleigh shoes, $1.97 1-2; tire, $2.07 1-2: spring, $2.75; toecalk, $2.62 1-2; machinery iron finish, $2.10; reeled machinery steel, $2.75; mild, $2 and upwards; rivet, $2 and upwards. Net cash thirty days.

Cold-Rolled Shafting Trade on this

market continues to be steady. Prices are firm and continue unchanged. We quote the following: Cold-rolled shafting, 3-4 inch to 17-16, $3.85 per 100 lbs.; inch and a half to 3 inch, $3.50 per 100 lbs.

Canada Plates—The strong demand of this Spring continues unabated. Prices are firm. Our quotations are as follows: 52's, $2.35; 60's, $2.40; 75's, $2.45; dull polished, $3.60; galvanized, 52's, $3.90 to $4; 60's, $4.15 to $4.25.

Galvanized Iron—No change has occurred during the past week, and it is expected that this market will continue unchanged until the closing of the season. Prices are firm, but remain the same. We quote as follows: Queen's Head, 28 gauge, $4.15; 26 gauge, $3.90; 22 to 24 gauge, $3.65; 16 to 20 gauge, $3.55; Apollo, 28 gauge, $4; 26 gauge, $3.75; 22 to 24 gauge, $3.75; 16 to 20 gauge, $3.40; Fleur-de-Lis, 28 gauge, $4; 26 gauge, $3.75; 22 to 24 gauge, $3.50; 16 to 20 gauge, $3.40; Comet, 28 gauge, $3.95; 26 gauge, $3.70; 22 to 24 gauge, $3.45; 16 to 20 gauge, $3.40; Bell brand, 28 gauge, $4; Gorbal's "Best Best," 28 gauge, $4.15; "Windmill Best," 28 gauge, $3.95; Sword and Torch, 28 gauge, $4.05; in less than case lots, 25c extra.

Black Sheets—Prices are steady, and the demand, practically speaking, continues unchanged. We quote as follows: 28 gauge, $2.15; 26 gauge, $2.10; 22-24 gauge, $2.05; 19-20 gauge, $2.20; 8-10 gauge, $2.30.

Antimony—No further advance has occurred during the week. Trade is fair and prospects point to a good season. We quote from 11 to 11 1-2c.

Sheet Zinc—Reports state that zinc has become firmer, and at present there is a strong tendency for an advance. Our quotations are: Cask lots, $7; small lots, $7.25.

Tin Plates—A good demand continues to be prevalent on this market. Prices are firm owing to the condition of the ingot tin market, but no advance is likely to occur. Our quotations are: Cokes, $3.75; charcoal, $4.

Ingot Tin—This market has assumed a much firmer aspect, and although no advance has as yet occurred one is likely to take place at any time. Present prices range from 32 1-2 to 33c.

Ingot Copper—The result of the recent fluctuations is a weaker market, but as the market is continually fluctuating it is hard to form an opinion. Our quotations are 16 to 16 1-4c.

Ingot Zinc—Zinc continues to become easier, and although the prices have not as yet declined they are expected to do so within a short time. Our quotations are: 6 1-4 to 6 1-2c.

Pig Lead—Pig lead has once more become firm, and during the week prices have advanced 5c. Prices have become firm at these new quotations, and it is likely that there will be a strong tendency for another advance. We quote from $3.40 to $3.50, no concessions being obtainable.

Boiler Tubes—A steady trade continues to be in progress on this market. Prices continue unchanged. Our quotations are: British and American tube, 1 1-2 inch, 8 1-2c.; 2 inch, 8 1-2c.; 2 1-2 inch, 10c.; 3 inch, 12 1-4; 3 1-2 inch, 16c.; 4 inch, 20c.; 5 inch, 45c. Price per foot net.

Scrap Metal and Old Material—Old rubbers are maintaining their position well, considering the period of the season, and some dealers believe that there is a strong tendency for an advance. The English market for scrap metals continues to be dull, and local dealers are excusing themselves from exporting at the present time. Scrap stove plate and wrought iron are also dull on the local market, and a decline has occurred during the past week. Copper and brass, locally speaking, are, however, in a better position, and a number of good orders have been booked of late. Our quotations are: Heavy copper and wire, 12 3-4c.; light copper, 11 1-2c.; heavy red brass, 10 1-2c.; yellow brass, 8 3-4c. to 9c.; light brass, 6c.; lead, 2 1-2c.; zinc, 3 3-4c.; machinery cast scrap, $14; wrought scrap, $13; stove-plate scrap, $10; No. 1 country rags, 75c. to 90c. per hundred lbs.; old rubbers, 5 1-4 to 5 1-2c. per lb.

ONTARIO.

Office of HARDWARE AND METAL,
10 Front street east,
Toronto, June 16, 1905.

Pig Iron—Increased activity is reported, with sales made in satisfactory quantities. Quotations continue at:

Middlesboro, f.o.b., Toronto	$20 00	$20 50
Hamilton, No. 1, at furnace	18 00	18 50
" No. 2, "	17 50	18 00
Midland, No. 1, "		18 50
" No. 2, "		18 00
Radnor, at furnace		30 00
Londonderry, at furnace	16 50 to	17 00

Bar Iron—Business is reported to be good. Prices continue as follows: $1.85 f.o.b. Toronto, with discount of 2 per cent.; for extras as cut to length, while rolling, 2 feet and over, 10c. per 100 lbs., 1 foot and under 2 feet, 15c.; under 1 foot, 20c.; over 20 feet, by special agreement according to length and size.

Tin—The market shows great strength with prices very firm at 33 to 34c. per lb.

Galvanized Sheets—Demand for stocks is heavy, and prices the same.

Tin Plates—General activity is reported at steady prices.

Canada Plates—Much business is being done at unchanged prices.

Brass—Trade continues active and prices firm. Discounts are 10 per cent.

Lead—Trade is active, with prices firmer. We still quote: Pig lead, $3.80 per 100 lbs., and bar lead, $4.80 per 100 lbs.

Zinc Spelter—The demand is strong, although the same quotations govern. We quote: 7c. per lb. for foreign and 5 1-2 to 5 3-4c. per lb. for domestic.

Copper—Despite fair buying, a weakening condition is noted. Prices are, however, unchanged. We quote: Ingot copper, 15 3-4 to 16c. per lb., and sheet copper, 21c. per lb.

Antimony—The recent advance holds with a fair business being done.

Old Material—Receipts from country districts continue normal, while average business is reported in other lines. We again quote: Heavy copper and wire, 12 1-2c. per lb.; light copper, 11c. per lb.; heavy red brass, 10 1-2c. per lb.; heavy yellow brass, 9c. per lb.; light brass, 6 1-2c. per lb; tea lead, $2.40 per 100 lbs.; heavy lead, $2.60 per 100 lbs.; scrap zinc, 4c. per lb.; iron, No. 1 wrought, $9 to $10, No. 2 wrought, $3 to $5; machinery cast scrap, $13; stove plate, $10; malleable and steel, $5; old rubbers, 5c. per lb.; country mixed rags, 65c. per 100 lbs.

Coal—Receipts of coal are slightly increased. Buying is normal and prices steady. We quote: Anthracite in cars at bridges: Grate, $4.95 per gross ton; egg, stove and nut, $5.20 per gross ton; pea, $3.60 per gross ton.

Standard Hocking, soft coal, in cars, f.o.b. at mines: Lump, $1.35; 3-4 inch, $1.25; run of mine, $1.05; nut, 90c.; N. P. and S., 60c.; slack, 40c.; box cars 10 cents per ton additional.

Youghiogheny soft coal in cars, bonded at the bridges: 1 1-4 inch, $2.45; 3-4 inch, $2.35; mine run, $2.35; slack, $1.80.

For Manitoba Metal Markets see page 40.

MINES AND MINERALS.

A Sydney despatch says the steel plant of the Nova Scotia Coal and Steel Co. at Sydney Mines is now assuming practical shape. The gas producers for the open-hearth furnaces are already fired preparatory to heating the furnaces. The plant will commence work during the first week in July. The building containing the open-hearth plant alone cost $78,000, while each furnace was constructed at a cost of $100,000. The company's blast furnace is turning out an excellent product, its capacity reaching maximum output.

* * *

A new vein of mica has been discovered near Carp, Ont., and the local people believe it may prove rich. A small quantity of this product has been taken out already in the vicinity but the mining operations were not pushed with sufficient energy to make the industry profitable.

* * *

A wonderful discovery of gold is reported from Barrie Township, County of Frontenac. On June 10 the men employed by the Big Dipper Co., while prospecting, came upon the largest find in gold that has ever been discovered in Ontario. The quartz containing the gold will turn out $1,000 to the ton.

* * *

Twelve hundred coal miners are on strike at Springhill, N.S.

* * *

A new strike of excellent ore has been made at the Helen mine near Sault Ste. Marie. One thousand tons are being taken out daily and 30,000 tons have been shipped already this season.

* * *

It is a fact which is perhaps scarcely realized, that one-third of the production of silver in the United States is derived as a by-product from the smelting of copper ores, the larger part of which do not contain enough silver to be classed as paying silver ores. It is estimated that 18,600,000 ounces of sil-

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ver were obtained in 1904 from the copper ores of the United States. By far the largest amount was supplied by Montana, and nearly the whole of this was derived from the Butte copper ores.

* * *

The Dominion Iron and Steel Co. have, in addition to the contract to supply 25,000 tons of steel rails to the Intercolonial, received an order from the Grand Trunk Pacific for 15,000 tons for the Fort William section.

* * *

The report of General Superintendent Joseph Ripley, at St. Mary's Falls canal, shows that during May, 1905, 4,332,736 tons of iron ore passed through the American and Canadian locks at Sault Ste. Marie. Of this amount, 3,619,776 passed through the American locks and 712,960 through the Canadian locks.

* * *

Another epoch in the steel industry in Canada was marked on June 14, when the first rail passed safely through the new rail mill of the Dominion Iron and Steel Co., at Sydney, which has just been completed. The machinery worked to the entire satisfaction of the experts and other officials present.

* * *

Operations have been resumed at the blooming mill of the Dominion Iron and Steel Co., at Sydney. The mill has been closed down on account of an explosion, the main engine blowing out the big cylinder head. But, notwithstanding this drawback, good progress is being made, and it is understood that all records as to the output of pig iron have been broken.

UNITED STATES METAL MARKET.

Advance proofs furnished HARDWARE AND METAL by The Iron Age, June 15, 1905.

NOTHING has occurred during the past week to materially change the attitude of buyers and sellers in the iron trade as a whole. The larger consumers of raw materials seem to be well covered for some time to come, and the producers show little disposition to force material on an unwilling market, particularly since they have contracts to take care of their output for months. Still the market is in buyers' favor in pig iron, and prices are slowly receding. Sentiment, which rules the situation today, is swayed by the belief that production is slightly in excess of requirements and that we have a quiet period before us, during which the level must be found at which buyers will take hold with the usual rush.

Pig iron has receded to $12 for No. 2 foundry at Birmingham and there are reports of concessions below that figure. Northern irons have declined correspondingly, but there has been very little business done.

Steel billets are easier in the leading markets.

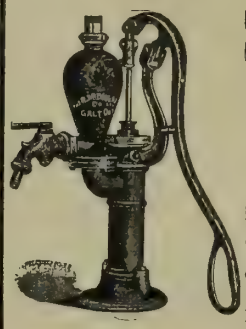
In the steel rail trade the most interesting fact is the admission that the Republic Company has taken orders for about 20,000 tons and that negotiations for further tonnage are pending. It is reported that the rolling of rails will begin at the Youngstown mill in July. The event is not one which particularly affects the situation for this year, but it brings up some perplexing problems for the future.

The activity in structural material

Tinplates

"Dominion" B.B. Charcoal
"Alloway's" Best Charcoal.
"Trym" and "Lydbrook" Best Coke.
Standard brands, best value.

A. C. LESLIE & CO.
MONTREAL.



Enterprising Hardwaremen handle our
ANTI-FREEZING PUMPS.

They know that the sale of a good Pump brings about the sale of many other things from satisfied customers.

Do you handle our PUMPS?

Write for catalogue and prices.

The R. McDougall Co., Limited
GALT, ONTARIO.

BAINES & PECKOVER
TORONTO.
Ontario Agents for
B. K. MORTON & CO.'S
"ALPHA"
HIGH SPEED STEEL
AND
Crucible Cast Steel
Large stock on hand. Send for Stock List

NOVA SCOTIA STEEL & COAL CO., Limited
NEW GLASGOW, N.S.
Manufacturers of
Ferrona Pig Iron
And SIEMENS-MARTIN
OPEN HEARTH STEEL

"Made in Canada"
—— for 40 years ——

TRADE C MARK

TO THE TRADE

PLEASE NOTE: That all Horse Shoe Nails manufactured and sold by us, have our name and registered trade mark (the Gothic letter "C") on every box. The misuse, or imitation or either, is illegal, and a penal offence in Canada.

The "C" Brand Horse Nails are sold by us with an absolute guarantee to the purchaser, that every nail is perfect and ready for immediate use, or purchase money refunded on application.

The "C" Brand Horse Shoe Nails are "hot forged" and then "cold-rolled" from the best procurable charcoal steel nail rods, made especially for our requirements in Sweden; of a quality which combines the greatest tensile strength and durability found in any material known or used in the world for this purpose.

They are of the best proportions according to size and work required; have finest hardened bevel points; will drive easily into the hardest hoofs; will not split or bend in driving; nor will the heads break off under the most severe weather conditions or hard usage. Their great toughness and durability causes the clinches to hold firmly, until the removal of the shoes is required.

They are not surpassed by any other Horse Shoe Nails made in the world, and will be found more economical for the Farrier to use than any lower priced or cheaper process brands made from other material.

Don't forget they are "Made in Canada" by Canadian labour. Your preference respectfully solicited, by ordering our "C" Brand.

Canada Horse Nail Company

MONTREAL

ESTABLISHED 1865.

continues. The largest order taken during the week is 6,000 tons for the Deep Water System of Virginia. Chicago notes some fair building contracts, and a lot of good work is coming up in nearly all the leading cities.

The plate mills are active and there is prospect of some additional round lots coming up for additional lake vessels. Car orders, too are being received by builders, which will keep them busy.

In the lighter lines, the settlement effected between the Amalgamated Association and the Republic Company indicates that there is little prospect of labor troubles in the iron branch.

An interesting contract has come to public notice now between the International Harvester Co. and the Interstate Iron & Steel Co. in the Chicago district. The Harvester Co. will furnish the steel and take all of the product of bars and shapes, marketing any surplus above requirements.

Some significant movements are going on in the wire trade pointing to a consolidation of some of the interests. The manufacturers are to meet in Chicago next week. Rather more encouraging reports have been heard lately concerning the condition of the trade.

Skelp is weak east and west.

The export trade is being pushed more vigorously. Among the orders placed recently are a lot of 3,000 tons of sheet bars and some good lots of girder rails. The export wire trade continues to be active.

LONDON METAL MARKETS.

From Metal Market Report, June 14, 1905.

Pig Iron—Middlesboro No. 3 foundry is quoted at 45s. 6d, and Scotch warrants at 49s. 4d, making prices as compared with last week 1 1-2d lower for Middlesboro and unchanged for Scotch warrants.

Tin—Spot tin opened steady at £138, futures at £136 15s., and after sales of 170 tons of spot and 140 tons of futures closed easy at £137 17s. 6d for spot and £136 10s. for futures, making price as compared with last week £1 10s. higher on spot and £1 7s. 6d higher on futures.

Copper—Spot copper opened quiet at £66, futures £66, and after sales of 75 tons of spot and 100 tons of futures closed quiet at £66 for spot and £66 for futures, making price as compared with last week 9d higher on spot and 9d higher on futures.

Lead—The market closed at £13, making price as compared with last week 1s. 3d higher.

Spelter—The market closed at £24, making price as compared with last week 7s. 6d higher.

Nova Scotia Trade News

Halifax, N.S., June 13, 1905

HARDWARE dealers report very little change in business over last week. Prices are very firm. Trade is somewhat disappointing and jobbers are beginning to feel the effects of the backwardness of orders. Turpentine still attracts attention. While no increase in price has been made during the week, an early advance is looked for. Wire nails show a strong tendency up-

wards, and oils are firm at last quotations. There is a good buying demand for bar iron, and considerable ingot tin is being sold. The canneries throughout the province are now in full operation, and they use a lot of material.

An interesting experiment was tried at the Nova Scotia Steel and Coal Co.'s works at Sydney Mines during the week. One of the large cranes which is to convey the steel from the open-hearth furnaces to the ingot mould was set in operation. The crane lifted 90 tons dead weight without any difficulty. The plant is now assuming practical shape. The gas producers of the open-hearth furnaces are already fired preparatory to heating the furnace. The steel plant, which includes four open-hearth furnaces, will commence work during the first week in July. The building, containing the open-hearth plant alone, cost $78,000, while each furnace was constructed at a cost of $100,000. The company's blast furnace is turning out an excellent product, its capacity reaching the maximum output.

It is probable that another large cement plant will be erected in Cape Breton. Dr. Bissett, the representative of St. Peter's in the Local Legislature, is in receipt of a communication from a transportation company in Antwerp in which enquiries are made as to the harbor facilities for accommodation of steamships at St. Peter's upon which steamers could land heavy machinery. The communication states that a site will be selected later, and a cement plant erected at St. Peter's this Summer.

The Dominion Iron and Steel Co., Sydney, are increasing the wages of laborers in one plant from $1.30 to $1.40 per day. The increase will come into effect on June 16.

The Hewson Woolen Mills Co., Limited, of Amherst, have on order in the United States a lot of new machinery for doubling and twisting yarn and weaving cloth, sufficient to increase their present capacity twenty-five or thirty per cent. The firm expects to handle one and a half million pounds of wool during the next twelve months. The steamer Florence arrived at Sydney during the week, aad landed 8,000 barrels of cement. This is one of the largest consignments of cement ever received in this province.

New Brunswick Trade News

St. John, N.B., June 13, 1905.

NOTHING of a startling nature to chronicle in the hardware world in this part of the Dominion at present. Business has varied in different places, but the general impression is that so far the season has been at least up to the average mark of previous years. In some localities it will certainly be better than previously, but there are no reports to indicate that trade will be noticeably poorer in any section of the country in this vicinity than in other years.

Of course, at this season of the year dealers begin to prepare for the trade in haying tools. As yet it is a matter of difficulty to secure any accurate idea of the probable extent of the business in these tools. In some parts of the country the dealers were left with quite a stock of haying tools on their hands at the close of last season. This, with the fact that it is not yet possible to forecast the size of the crop, makes dealers a little chary about investing in hay forks aad kindred implements. The next few weeks, however, will remove some of the uncertainty, and dealers will be either pleased or displeased when they consider the size of their stocks of haying tools.

The James Pender Co.'s premises here are to be enlarged considerably. The contract was awarded to Mr. S. A. Williams a day or so ago. The addition will be larger than the premises now used by the company. Included in the addition will be a machine room 48x40 feet, a wire mill 60x100 feet, and a cleaning room 46x78 feet. Off the last-named room will be a rod warehouse 50 x86 feet. At one side of the wire mill the engine room, 25x38 feet, will be found. A boiler room and a good-sized coal shed will adjoin the engine room. Fronting of Charlotte street will be a new structure 34x78 feet in size. The second floor of this building will be used as a cooperage. The ground floor will be taken up as a machine shop. All the new buildings will be of brick laid in cement mortar. The plans for the additions were prepared by a local architect, Mr. F. Neil Brodie. That the new buildings have become necessary is one of the indications that the business of this company is steadily increasing.

The Saturday half holiday for hardware clerks went into effect in this city last week. Unfortunately the opening day of the holidays was a rainy one, but the clerks will doubtless have many a fine holiday during the Summer. The Saturday half holiday plan will be in force during June, July and August. There are, of course, some features of the scheme not wholly pleasing to the merchants, but the advantages resulting probably counterbalance these.

At present the business in ship chandlery is best described by the adjective "dull," and all in all, the dealers in ship chandlery have not much reason for congratulating themselves on the business. The business in glass is not very brisk just now either. The probabilities are, moreover, that the trade in this commodity will not be at all brisk until the Fall business begins to come. The prevailing prices are now rather low.

Mr. H. R. Barber, who looks after the agency for Hallwood Cash Registers and Victor Safes, has recently visited Newfoundland in the interests of these lines. He reports business as pretty good in them in the ancient colony.

Turpentine is now selling at a high figure. The outlook is that the price will shortly go still higher.

Mr. A. W. Caldwell, for many years with the Geo. Sparrow Co., Limited, Toronto, has since the first of January been connected with the Wrought Iron Range Co., Limited, Toronto, as manager of that branch. Mr. Caldwell favored the Montreal offices of Hardware and Metal with a call last Friday.

"Metallic" Embossed Ceilings are remarkable for their high art quality, light weight and rigidity. Being cold pressed from high grade steel, they are much firmer than other kinds.

No metal ceilings made are applied so easily over old plaster as ours. They never sag, warp or buckle, and their accuracy is such that the joints and edges are practically invisible. Used in connection with our Wall Plates they fireproof any room absolutely, and add an elegance to the plainest interiors.

OUR NEW $10,000 CATALOGUE We have just issued the most complete Catalogue ever offered to the Metal Trade. It is a veritable encyclopedia of all that's practical and beautiful in the Art Manipulation of Sheet Metal. Book contains 440 pages, superbly bound and illustrated. We send it free upon request to any builder, contractor or dealer of responsibility.

THE METALLIC ROOFING CO.
OF CANADA, Limited
Toronto, Canada
(Established Twenty Years) 311

We also manufacture:
"Eastlake" Metallic Shingles
"Metallic" Cornices, Skylights and Ventilators
"Metallic" Sheet Metal Fronts
"Metallic" Siding (Stone, Brick, Etc,)
"Impervia" Fireproof Windows
"Empire" Metallic Shingles
"Metallic" Crestings and Finials
"Metallic" Corrugated Iron
"Hayes" Metallic Lathing
"Metallic" Eavetroughs and Conductor Pipe
"Metallic" Pressed Zinc Ornaments
"Richardson's" Pressed Metal Doors and Sheet Metal Building Materials of every description.

SEALED TENDERS addressed to the undersigned and endorsed "Tender for Toronto Island Breakwater Extension," will be received at this office until Tuesday, July 4, 1905, inclusively, for the construction of an extension to the Breakwater on South side of Toronto Island, City of Toronto, in the County of York, Ontario, according to a plan and a specification to be seen at the office of the Resident Engineer, Confederation Life Building, Toronto, at the office of C. Desjardins, Esq., Clerk of Works, Post Office, Montreal, and at the Department of Public Works, Ottawa.

Tenders will not be considered unless made on the printed form supplied, and signed with the actual signatures of tenderers.

An accepted cheque on a chartered bank, payable to the order of the Honourable, the Minister of Public Works, for seven thousand dollars ($7,000.00), must accompany each tender. The cheque will be forfeited if the party tendering decline the contract or fail to complete the work contracted for, and will be returned in case of non-acceptance of tender.

The Department does not bind itself to accept the lowest or any tender.

By order

FRED. GELINAS,
Secretary.

Department of Public Works,
Ottawa, June 3, 1905.

Newspapers inserting this advertisement without authority from the Department will not be paid for it.
(24)

STEPHENS SHINGLE STAINS

More and more every year this mode of roof treatment is coming into popular favor. Partly because they are cheaper than paint, but chiefly that they are a scientific combination of Creosote (the best wood preservative known) Manitoba Linseed Oil, coloring pigments and are excellent wood preservatives, besides imparting artistic and permanent color tones to the shingles. We make these stains in all the popular greens, reds, browns, etc., in all thirteen beautiful tints.

Sample Shingles and prices sent on request.

MANUFACTURED BY

G. F. STEPHENS & CO., Limited

PAINT AND COLOR MAKERS

WINNIPEG, - CANADA

Hardware and Metal Conditions in Manitoba.

(Market quotations corrected by telegraph up to 12 a.m. Friday, June 16, 1905.)

Office of HARDWARE AND METAL
Room 511 Union Bank Building,
Winnipeg, Man.

A LARGE heating contract was recently secured by the Pease Waldon Co., Limited, through their agents, Patterson & Pfieffer, of Calgary. This was for the installation in the Church of the Redeemer in Calgary of a combination heating and ventilating system. The work is now in progress.

* * *

Some little time ago Mr. Ernest Guertin opened in Winnipeg a branch sample room and warehouse for P. D. Dods & Co., the manufacturers of "Island City" paints in Montreal. Mr. Guertin has been joined by his brother George, who will be associated with him in the western business.

* * *

Additions are contemplated to the wholesale warehouse of The J. H. Ashdown Co., Limited. When completed the building will be six storeys high with a basement.

* * *

Announcement is made in the Manitoba Gazette that the Brandon Hardware Co. have been authorized to increase their capital stock from $30,000 to $60,000.

* * *

General trade conditions are reported satisfactory. Without exception, the crop reports indicate an excellent harvest, and the western trade are consequently inclined to be very optimistic. Building operations are very extensive, and the demand for all classes of building supplies is unprecedentedly large. Values throughout are steady.

* * *

Screen Wire Cloth—Sorting orders continue to come in large numbers. The price is steady at $1.55 per 100 square feet.

Poultry Netting — In brisk demand. For the 2-inch mesh in No. 19 gauge wire, prices are as follows:

24-inch roll, perroll	$1 20
30 " "	1 50
36 " "	1 80
48 " "	2 40
60 " "	3 00
72 " "	3 60

Wire—Fencing of all kinds is in brisk demand. Staple lines of barb and galvanized wire are selling well. Prices continue unchanged and are as follows:

Barbed wire, 100 lb.	$2 85
Plain galvanized....6 to 8	3 39
" 9 2 50	2 90
Plain galvanised....10	3 50
" 12	3 10
" 13	3 20
" 14	3 90
" 15	4 45
" 16	4 60
Plain twist	2 85
Staples	3 35
Oiled annealed wire....10	2 96
" 11	3 02
" 12	3 10
" 13	3 20
" 14	3 30
" 15	3 45

Annealed wires (unoiled) 10c. less.

Horseshoes—Trade is fairly active. Prices are still as follows:

Horseshoes, iron, No. 0 to No 1	$4 55
No. 2 and larger	4 30
Snow shoes, No. 0 to No. 1	4 80
No. 2 and larger	4 55
Steel, No. 0 to No. 1	4 75
No. 2 and larger	4 50

Horsenails—Discounts are as follows: "C" brand 40. 10 and 7 1-2 per cent.. "M" brand and other brands 55 and 60 per cent. Add 15c. per box.

Wire Nails—Moving in very large quantities. Base price: $2.85 per keg.

Cut Nails—Base price $3 per keg. Very few selling.

Screws—Trade continues very brisk. Discounts are still as follows:

Screws, flat head, iron, bright	85 and 10 p.c.
Round " "	80 p.c.
Flat " brass	75 and 10 p.c.
Round " "	70 and 10 p.c.
Coach	70 p.c.

Nuts and Bolts—Discounts are quoted as follows:

Bolts, carriage, ¾ or smaller	60 and 5 p.c.
" 7-16 and up	55 p.c.
Bolts, machine, ¾ and under	55 and 5 p.c.
" 7-16 and over	55 p.c.
Bolts, tire	65 p.c.
Bolt ends	55 p.c.
Sleigh shoe bolts	65 and 10 p.c.
Machine screws	70 p.c.
Plough bolts	55 p.c.
Square nuts, case lots	3c. discount.
" " small lots	2½c. "
Hex " case lots	3c. "
" " smaller lots	2½c. "

Rivets—Discounts continue as follows:

Rivets, iron	60 and 10 p.c.
Copper, No. 8	29½
" No. 12	33

Coil Chain—We quote:

Coil chain, 3-16 inch	9.25
" ¼ inch	7.25
" 5-16 inch	5.20
" ⅜ inch	4.60
" 7-16 inch	4.45
" ½ inch	4.30
" ⅝ inch	4.10
" ¾ inch	4.00

Shovels—Discounts on spades and shovels continue 40 and 5 per cent.

Harvest Tools—Discount 60 per cent.

Axe Handles—Quoted still as follows:

Axe handles, turned, s.g. hickory, doz.	$3 15
No. 1	1 90
No. 2	1 60
Octagon extra	2 30
No. 1	1 60

Axes—We quote:

Axes, chopping	$ 6 75 to 12 00
" double bitts	12 00 to 18 00

Files—We again quote as follows:

" Arcade "	70 and 10 p.c.
" Black Diamond "	60 p.c.
" Nicholson's "	62½ p.c.

Building Paper—All kinds of building paper are selling in large quantities. We quote following unchanged prices:

Ancher, plain	55c.
" tarred	70c
Pure fibre, plain	60c.
" " tarred	80c.

Ammunition, Etc.—We again quote:

Ammunition, cartridges, Dominion R.F.	50 and 5 p.c.
Dominion, C.F., pistol	30 p.c.
" military	15 p.c.
Ammunition, cartridges, American R.F.	33⅓ p.c.
C.F. pistol	5 p.c.
C.F. military	10 p.c. advance.
Loaded shells:	
Eley's and Kynoch's soft, 12 gauge	
black	15 00
chilled, 12 gauge	16 00
soft, 10 gauge	18 00
chilled, 10 gauge	19 00
Shot, Ordinary, per 100 lb	6 25
Chilled	6 75
Powder, F.F., keg, Hamilton	4 75
F.F.G., Dupont's	5 00

Tinware, Etc.—We quote again as follows:

Tinware, pressed, retinned	70 and 10 p.c.
" " plain	75 and 2½ p.c.
" pieced	30 p.c.
Japanned ware	37½ p.c.
Enamelled ware, white	45 p.c.
" Famous	50 p.c
" Imperial	50 and 10 p.c.

Cordage—Business is normal. Prices are:

Rope, sisal, 7-16 and larger, basis	11 25
Manila, 7-16 and larger, basis	15 25
Lathyarn	11 25

Solder—The price is now 20 cents per lb., with concessions for large quantities.

Iron and Steel—There are no new features in this market. Prices are steady. We again quote:

Bar iron (basis)	2 50
Swedish iron (basis)	4 75
Sleigh shoe steel	2 65
Spring steel	3 00
Machinery steel	3 50
Tool steel, Black Diamond, 100 lb	9 50
Jessop	12 00

Black Sheets—Prices are steady. We quote:

Black Sheets, 10 to 16 gauge, 100 lb	3 50
18 to 22 gauge	3 75
24 gauge	3 90
26 gauge	4 00
28 gauge	4 10

Galvanized Iron — Brisk demand; steady prices. We quote:

Apollo, 16 gauge	4 00
18 and 20 gauge	4 00
22 and 24 gauge,	4 25
26 gauge	4 25
28 gauge	4 50
30 gauge or 10¾ oz	4 75
Queen's Head, 24 gauge	4 25
26 gauge	4 50
28 "	4 75

Tin Plates—Prices are quoted as follows:

Tinplate, IC charcoal, 20 x 28, box	9 50
" IX "	11 50
" IXX "	13 50

THE GREAT WEST WIRE FENCE CO., Limited

Sole Owners for Dominion of Canada for

Rankin Patent Wire Lock



Patented June 30th, 1903

Office and Factory
76-82 LOMBARD ST.,

Manufacturers of

Railway, Farm, Lawn and Ornamental Fences

Field erected type and all made of No. 9 Hard Coiled Steel Wire. Easily erected and sold in quantities to suit purchaser. Liberal discounts to dealers handling our goods. Also manufacturers of

Steel Farm and Lawn Gates

and dealers in fencing tools of all descriptions.

WINNIPEG, Manitoba

FOR **STORAGE** IN **WINNIPEG**

Handling and reshipping of goods. Brick warehouse with track facilities

MACKENZIE BROS. WRITE 244 PRINCESS ST. OR P.O. BOX 579 **WINNIPEG.**

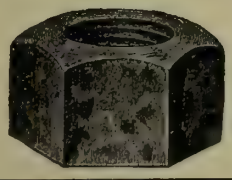
WIRED GLASS

The use of which is past the experimental stage, and is now recognized as a necessity by up-to-date business men.

Money saved is money made, and WIRED GLASS will save you money on INSURANCE. Samples and Particulars on Application.

ASK FOR VEST POCKET MAP OF MANITOBA

THE WINNIPEG PAINT AND GLASS CO., LIMITED
WINNIPEG, CANADA



THE JOHN MORROW MACHINE SCREW COMPANY, Limited

Manufacturers of

Set and Cap Screws, Special Milled Work, Engine Studs, Etc. Cold Punched Nuts of every variety of finish.

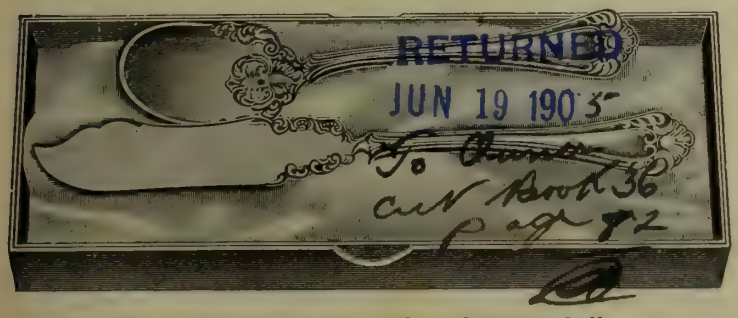
INGERSOLL, ONT.

OUR AGENTS

MESSRS. WAYLAND, WILLIAMS & DADSON
28 BOARD OF TRADE BUILDINGS, MONTREAL

are carrying a stock of our goods and will be pleased to have your inquiries for **Hex.** and **Square Cap Screws, Square Head Set Screws, Bright Washers,** and **Bright** and **finished Hex. Nuts.** The quality is right, and we can give you good deliveries.

ACME LATHE & PRODUCTS CO., LTD.
MANCHESTER.



Set of Puritan Butter Knife and Sugar Shell.

Another one of our Flatware patterns in Plate.

If interested write for Catalogue No. 21.

In buying Flatware see that it is stamped "Toronto Silver Plate Co.," as the name guarantees the quality.

If buying from your jobber, insist on this stamping.

THE TORONTO SILVER PLATE CO., Limited, West King St., TORONTO, CAN.

E. C. COODERHAM, Managing Director

Are you handling our



STEEL FEED TROUGHS?

If not we can make you an interesting proposition as our NEW TROUGH CATALOGUE and other literature are now ready to assist the trade. We supply you liberally with them and give exclusive agency. Let us hear from you.

STEEL TROUGH & MACHINE Co., Limited
TWEED, Ontario

SIGNS AND SHOW CARDS

Have you ever realized the advertising value in your Show Windows, and that you could talk to the thousands of people passing your Store with bright, attractive Show Cards? We can supply Show Cards and Price Tickets at low prices. Write for our Catalogue which shows you as well hundreds of other styles of Signs.

The Martel-Stewart Co. Ltd.
681-683-685 Craig Street, - Montreal, Canada

SOMETHING NEW
UNDER THE SUN

E. SECKER,
SPROWSTON, NORWICH, ENGLAND

HAS BROUGHT OUT AN EYE-OPENER IN THE TOOL TRADE.

GOODS THAT WILL SELL IN EVERY TOWN IN CANADA.

REGISTERED SASH CRAMPS.
RRGISTERED SASH GOUGES.
PATENT MITRE CRAMPS.
PATENT TOOL BASKETS.

I CLAIM TO BE THE CHEAPEST IN ENGLAND FOR
MORTISING MACHINES
AND
SAW BENCHES.

PLEASE NOTE:
Catalogue and Goods are only supplied to Bona-fide Dealers in Tools. I believe in protecting The Trade.

Persons addressing advertisers will kindly mention having seen their advertisement in Hardware and Metal.

Canada Plates—There is a fairly active demand. Prices are:

Canada plate, 18 x 21, 18 x 24	3 25
Canada plate, 20 x 28	3 50
Canada plate, full polished	4 00

Sheet Zinc—The price of cask lots is $8.25 per 100 lbs.; price of broken lots is $8.75.

Pig Lead—$4.50 per 100 lbs.

Iron Pipe—We quote:

Black iron pipe, ⅛ inch	....
" ¼ "	2 45
Black iron pipe, ⅜ inch	2 65
" ⅜ "	3 00
" ½ "	3 80
" 1 "	5 50
" 1¼ "	7 45
" 1½ "	8 95
" 2 "	12 30

Petroleum—Prices are steady at former quotations, which were:

Silver Star, per gal	20½c.
Sunlight "	21½c.
Eocene "	23½c.
Pennoline "	24½c.
Crystal Spray "	23½c.
Silver Light	21½c.

(In barrels f.o.b. Winnipeg.)

Paris Green—In seasonable demand. We quote:

English Paris Green—Petroleum barrels, 14 1-4c.; arsenic kegs, 14 1-2c.; 50 and 100-lb. drums, 15c.; 25-lb. drums, 15 1-2c.; 1-lb. tins, 17c.; 1-2-lb. tins, 19c.; 1-lb. cardboard boxes, 16c.; 1-2-lb. ditto, 18c. Terms 2 per cent. off for cash in 30 days; 90 days net.

Canadian Paris Green—50-lb. drums 17c., bulk 18c.; in 1-lb. packages 20 cents.

Paints and Oils—Interest still centres in the turpentine market. Although the market is very firm there has been, at time of writing, no further advance on the present almost prohibitive prices. Linseed oil is steady. There is a big movement of all general lines of prepared paints and painting materials. We quote:

White lead (pure)	$5 00 to $5 50
Bladder putty, in bbls	0 02½
" " in kegs	0 02¾
Turpentine, pure in barrels	$ 1 10
Less than barrel lots	1 15
Linseed oil, raw	0 62
Boiled	0 65

Window Glass—No further advances have been made on the new prices announced about a month ago. Local supplies are not very large considering the enormous demand. We quote:

16-oz. O.G., single, in 50-ft. boxes—	
16 to 25 united inches	$ 2 40
26 to 40 "	2.65
16-oz. O.G., single, in 100-ft. cases—	
16 to 25 united inches	4.25
26 to 40 "	4.50
41 to 50 "	5.00
51 to 60 "	5.50
61 to 70 "	6.00
21-oz. C.S., double, in 100-ft. cases—	
26 to 40 united inches	7.35
41 to 50 "	8.40
51 to 60 "	9.45
61 to 70 "	10.50
71 to 80 "	11.55
81 to 85 "	12.60
86 to 90 "	14.75
91 to 95 "	17.30
96 to 100 "	

During the months of June, July, August, September, October and November all of the offices of the Sherwin-Williams Paint Co. will close at 12 o'clock, noon, on Saturdays.

PERSONAL MENTION.

Thos. Coulter, formerly of Albany, N. Y., is to open a plumbing shop in Brockville, his native town.

A new hardware and general lumber yard has been opened at Mortlake, Man., by Mr. C. A. McDonald, of Winnipeg.

The Hammond Typewriter Co. have removed from Yonge street arcade to their new store at 45 Adelaide street, Toronto.

J. R. Brown, with W. J. McGuire & Co., Toronto, for the past ten years, has opened a plumbing shop at 778 Gerrard street east, Toronto.

W. J. McMurtry & Co., hardware merchants, St. Thomas, have leased the store adjoining their present premises and will make the two into one store.

R. J. Cluff, of R. J. Cluff & Co., Toronto, made a hurried visit to Montreal a few days ago to arrange with Warden King & Son regarding the agency for their goods in Ontario.

M. W. C. Morden, a progressive and popular plumber from Brandon, Man., called on Toronto members of the trade this week. He reports active preparations being made to have a bumper convention in Winnipeg in August.

Mr. Norman Wylie, one of the popular traveling representatives in Ontario for Lewis Bros. & Co., Montreal, is taking in the Manufacturers' Excursion to England, the firm showing their appreciation of his services by sending him as their representative.

The Town of Prescott, Ontario, has just awarded a contract to J. D. Mills, hardware merchant, Prescott, for about two thousand barrels "Invincible" brand Portland cement, for sidewalks and crossings. Mr. Mills procures his cement from F. Hyde & Co., Montreal.

Ben Noble, of London, and R. W. Harrison, of Toronto, left on Saturday for Atlantic City, N.J., to represent Canadian steam-fitters at the U. S. National Convention in that city this week. John McKinley, of Ottawa, elected as a third delegate, was unable to make the trip.

The war of 1812 will be fought over again on Grand Island in the Niagara River on Saturday, June 17, when Toronto and Buffalo plumbers meet to battle for supremacy in throwing high balls on the baseball diamond and bowling each other over on the green. Plenty of ballast will be taken so that the trip across the lake can be made in perfect safety.

Mr. W. Brandenberger, Stratford, is making an extended business trip for the Ferro Steel Co., Cleveland Ohio. Going by way of Ottawa he will stop at each of the principal places on the C.P.R. between there and the Pacific Coast. He expects to be in Portland, Oregon, by the middle of July to take charge of an exhibit there of the goods of his company. Mr. Brandenberger expects to be absent three or four months.

Mr. J. F. Henderson, who has been in the employ of Lewis Bros. & Co., Montreal, for 13 years as head clerk, and for the past two years has been traveling in Southern Manitoba for the Miller-Morse Hardware Co., has purchased an interest in the business of Lorimer & Smith, of Manor, N.W.T. In future Mr. Henderson will manage the hardware and purchasing department of this firm, and will be pleased to have all his old friends call when in Manor.

BUSINESS CHANGES

Ontario.

S. Gibson, blacksmith and wagon-maker, Mimosa, has advertised business for sale.

Stevens Mfg. Co., iron and brass founders, London, have been succeeded by the Canada Brass & Supply Co.

Quebec.

J. Beaulieu, contractor, Montreal, has assigned.

Lauzon & Dulong have been registered as plumbers, Montreal.

Knott & Gardner have been registered as plasterers, Montreal.

O. Marauis & Cie., have been registered as contractors, Montreal.

G. E. Labelle & Cie., paint dealers, Montreal, have been registered.

Courtois & Connolly, plumbers, Sherbrooke, have dissolved partnership.

A. R. Wilson & Co., Sherbrooke, plumbers, have dissolved partnership.

Brunet & Desjardins, brick manufacturers, Montreal, have dissolved partnership.

Manitoba and N.W.T.

J. A. Stovel, hardware merchant, Edmonton, has assigned to W. H. Cooper.

Sloan & Brown, painters, Winnipeg, have been succeeded by Sloan & Brown Bros.

Randell, Bell & O'Connell, plumbers, Winnipeg, have been succeeded by Randell & Bell.

R. C. Switzer, dealer in agricultural implements, Wetaskiwin, has assigned to Chandlier & McKay.

Scott & Sproatt, dealers in agricultural implements, Fillmore, have been succeeded by Sproatt & McConnell.

British Columbia.

M. A. Inglis, plumber, Trail, is giving up business.

G. McLean, blacksmith, Nelson, has been succeeded by Ashcroft & Marks.

Gibble, Skeens & Barrett Co. have been registered as contractors, Vancouver.

Yukon Territory.

E. D. Vaut, hardware merchant, Grand Forks, has been succeeded by E. Mohr.

The chattel mortgage of the Yukon Hardware Co., Limited, Dawson, has been foreclosed.

YOU, US AND THE OTHER FELLOW

No Sentiment in Business

There can be Trade without much BUSINESS about it.

Our classified article list of Industrial Products is a book of information. It tells you where articles are manufactured, what the articles are made of, and the uses they are put to. THE CITY MAN KNOWS all about it, DO YOU? Cloth bound, 400 pages, price $2.00. Ask us the price of our Canadian Industrial Blue Book for the next 30 days.

The Manufacturers List Co., - - - Toronto.

FOR IMPORT

CHAIN

English Close Link Tested. ***Lowest Prices.***

Linseed Oil

In Stock. ***Small Lot No. 9 Gold Wire.***

J. A. HENDERSON, Board of Trade Bldg., MONTREAL

Agent for T.W. & J. WALKER, Wolverhampton

NO COMPLAINTS

ARE EVER HEARD ABOUT THE

METALLIC ASH-SIFTER

IT IS MADE TOO WELL FOR THAT. IT IS TOO SOLID, TOO DURABLE. ***AND THAT PRICE!***

ILLUSTRATED CIRCULAR ON REQUEST.

C. M. CUTTS & CO., Sole Makers, **Toronto Junction, Ont.**

STANLEY RULE & LEVEL CO.,

NEW BRITAIN, CONN., U.S.A.

IMPROVED CARPENTERS' TOOLS

SOLD BY ALL HARDWARE DEALERS.

STOCK LOOSE-LEAF LEDGERS

We are manufacturing these different rulings in two sizes regular **Crain Loose-Leaf Ledgers**, sizes 8 x 12 and 12 x 18. These we will always keep in stock for immediate shipment. Manufacturing in quantity enables us to give the sheets at a price which is much below the cost of bound books. If you wish to have a Loose-Leaf system at one-third the cost of bound books, write us for information.

THE ROLLA L. CRAIN CO., LIMITED

Head Office and Factory: OTTAWA, ONT., Phone 1013

TORONTO OFFICE: 18 Toronto Street, Phone Main 298 **MONTREAL OFFICE: 74 Alliance Bldg., Phone Main 3023**

MANUFACTURE OF HORSESHOES.

AN opportunity was given a representative of Hardware and Metal a few days ago of visiting the extensive plant of the Montreal Rolling Mills Co., with an idea of noting specially the process of manufacturing horseshoes.

To those whose only acquaintance with horseshoes is limited by the occasional sight of a "blacksmith's forge," to follow the various steps from the raw material to the finished product is of very great interest. While the horseshoe of the grade and finish manufactured to-day may be termed of comparatively recent development, the idea of protecting the horse's hoofs is of very ancient lineage. A crude shoe of rawhide appears to have been the first means adopted but the first iron shoe of which any record is to be had was used by the Romans long before the beginning of the Christian era. It took the form of a flat plate which fitted over the horse's hoof in front and was tied at the heels with thongs. The Arabians used a horseshoe of somewhat similar description, evidently copied from the Romans, but tied with a ring in front and at the heels. It was not until about the fifth century that nails appear to have been used. From that time, improvements were gradually made, but even as late as the fifteenth and sixteenth centuries shoes were very crude in shape and design. In England, the first horseshoe of which any definite information is to be obtained, was almost a solid plate cut in the form of a horse's hoof with an oval opening in the centre. It was used by the English knights about the fourteenth century and a specimen is to be seen in the British Museum.

In following the modern method of manufacturing horseshoes, the first step is the rolling of the blanks. A special grade material is used so as to give the wear and at the same time the working and welding qualities required by the farrier. From the heating furnace, the iron is run to the rolls where it is gradually worked into a long, narrow bar, into which have been rolled at regular intervals what is known as the "crease." Inasmuch as it is very important that the crease should be in the proper place and of the right size in order that the nails may be given a proper setting, the rolling is by no means the least important operation and requires much care and attention. After rolling, the long bars are cut into short pieces of exact lengths so that there will be no variation in the length of the heel when the blanks are made into shoes. After passing from the rolling mill into the horseshoe department proper, the blanks are either punched in the short straight lengths or charged again into furnaces, the punching being done after they have been shaped. When they have become properly heated, they are drawn and passed to a machine in which they are shaped by dies of careful adjustment and very exact proportions.

They then go through what is known as the "press," which, besides performing the operation indicated by its name, imparts a smooth finish to the shoe. The punching is either done now with some shoes, or, as before stated, when in the short, straight blank, after which it passes through a grubber so that the burr on the nail hole may be removed. The shoes are then rumbled after which they are ready for the packing department. Here, everything is inspected, "hand-picked" as it were, and anything imperfect thrown aside.

Throughout, the manufacture of horseshoes is something which requires great attention to detail and the care exercised is, no doubt, responsible for the high reputation and universal demand for the M. R. M. Co. shoe. There is certainly much of interest, and to watch the rapidity with which the shoes are manufactured is astonishing when one thinks of the time and labor necessary to forge a shoe by hand. The impression is further increased by the variety of sizes and styles necessary to supply the demands of the trade. There are heavy shoes for draught horses and light shoes for trotters, in all about sixty-two distinct shapes and sizes are manufactured by this company.

IMPORTANT MERGER.

The Ingersoll-Sergeant Drill Co. and the Rand Drill Co. have been united into a new company called the Ingersoll-Rand Co. The new corporation was formed under the laws of New Jersey with a capital of $10,000,000, of which $5,000,000 is preferred stock and the balance common. This is a union of valuable patents and of expert engineers of large experience in this special line of work. It should be advantageous to purchaser as well as manufacturer. Improved machinery and better service will result. The factories of the two companies are located at Phillipsburg, N.J., Easton, Pa. Tarrytown, N.Y., Ossining, N.Y., Painted Post, N.Y., 34th street, New York City, and Sherbrooke, Quebec. They will all be operated. For the present the main offices of the new company will be located at 26 Cortlandt street, New York.

TRAVELERS' GALA DAY.

THERE is to be a warm time in Hamilton around July 14 and 15, the occasion being the gala day that is being planned by the Hamilton travelers. There are 700 of the ubiquitous fraternity in the Ambitious City and since some time back in the Winter Mr. Smye has been lying awake nights thinking out new and startling features for the entertainment of the boys. Mr. Smye is the president of the committee having the affair in hand, Maj. J. H. Herring is treasurer, and Mr. G. G. Austin secretary. The headquarters of the committee are at the Royal Hotel Cafe and correspondence directed there will be promptly attended to.

The fun will begin on the evening of July 14 with a concert in the Drill Hall, and certain mysterious attractions that have not yet been divulged.

Saturday morning at 10.30 a procession will form at the Drill Hall, to march through the city and finally take the electric cars for the Brant House, where a programme of sports will be run off. These sports will include ball games between Toronto and Hamilton travelers and between Toronto and Hamilton old boys. The committee positively refuse to give any details as to the other sports on the programme, but something highly interesting and characteristic is suspected.

Travelers will appear in costume wearing white duck trousers and hat, with dark coat. It is also learned that three or four bands have been secured and that a pony parade is expected to be perpetrated. The prizes, it is said, will be numerous, costly, etc.

The Hamilton travelers are extending their hospitality on this occasion to their brethren everywhere and extend through The Grocer a cordial invitation to all the fraternity from whatever part of Canada to be present. A good time is guaranteed.

THE AMERICAN IRON TRADE.

THE annual statistical report of the American Iron and Steel Association, prepared by James M. Swank, the eminent authority, now in press, says in part:

"The decline in the production of iron and steel which began in the second half of 1903 was not generally arrested in the first half of 1904 and was particularly noticeable in June and July, but it was entirely checked in August and September. The production during the year was much less in many lines than in 1903, the increased activity in the last few months of the year falling very short of equaling the losses in production during the remainder of the year. The decrease in the production of pig iron was 1,518,219 tons; in Bessemer steel ingots and castings, 733,689 tons, and in all kinds of rails, 707,716 tons. The decrease in Pennsylvania anthracite coal shipments was 1,870,309 tons; in Lake Superior iron ore, 2,467,039 tons; and in Connellsville coke, 917,762 net tons. The only noteworthy increases in production in 1904 as compared with 1903 were in open-hearth steel, 78,255 tons, in wire rods, 195,573 tons and wire nails, 2,295,000 kegs. The decline in our imports of iron and steel in 1904 as compared with 1903 and the increase in our exports were features of the iron trade in 1904 which helped to mitigate the severity of the reaction in that year. The production in all lines in 1905 promises to be much the largest in our history.

"Naturally and properly prices of iron and steel have advanced since the improvement in demand began in August and September of last year, but this advance has wisely been kept within reasonable bounds. Steel rails have not been advanced at all. Such advances as have taken place have been justified in large part by advances in the prices of raw materials. Prices in 1904 were at their lowest ebb in the third quarter; some of these were the lowest prices that had been reached since the reaction in 1903 began. The average monthly price of Bessemer pig iron at Pittsburg fell in September, 1904, to $12.69 per ton, from which there was a gradual advance to $16.72 in December and January. At the end of April, 1905, the price was $16.35."

SATISFY YOUR CUSTOMERS.

Sell the customer the best range that you can. If he insists on having a light weight let him, but explain fully the advantages of the heavy, solidly built stoves. It is not only to your advantage, but to his. If the range does not give satisfaction he will soon forget that you told him it was not a first-class stove. All he will think of will be that he bought the stove of you and it is not satisfactory.

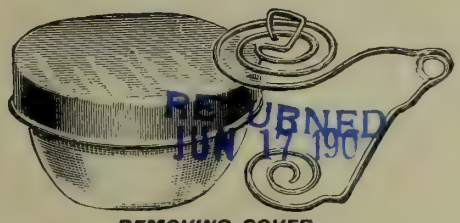
THE M.B. PUDDING STEAMER

(MACFARLANE'S PATENT No. 20339.)

RETURNED JUN 17 190



WITH COVER COMPLETE.



REMOVING COVER.

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A PERFECTLY COOKED PUDDING

THE ONLY RATIONAL METHOD OF COOKING A PUDDING

SIMPLICITY, DURABILITY, UTILITY. NO BURNING, NO DISAPPOINTMENT.
EXCELLENT FOR FISH AND MEATS. PRODUCES PERFECT PUDDINGS.

The **M B.** Steamer consists of an enamelled bowl with retinned cover held by patent wire clasp. As its name implies it is a "Steamer," not a "Boiler." When it is used the Steamer should be put in a saucepan with a close-fitting cover. Do not cover the steamer with the water, all it wants is a little in the bottom of the saucepan to generate steam. The Bowl is made of Best Quality Enamelled Steel and is practically indestructible.

SIZE OF BOWL—No. 1, 5½; No. 2, 6½; No. 3, 7½; No. 4, 8 in. Diameter.

EACH SIZE PACKED IN CARDBOARD BOX Dainty Book of 22 Original and Economical Recipes Enclosed with Each Steamer

—TO BE OBTAINED FROM—

F. W. LAMPLOUGH & CO., 9 De Bresoles St., MONTREAL

— ALUMINUM —
THREE-GALLON TEA POT

YOU WANT THE BEST



ALSO MADE IN
6, 9 AND 12 CUP SIZES

WE MAKE THE BEST

Aluminum utensils take and retain the heat better than any other kind.

Aluminum does not rust, no danger of poison, does not taste the coffee, and can be set on the stove without any detrimental effects to either the coffee or the pot.

MADE BY

CANADIAN ALUMINUM WORKS, LIMITED

Catalogue on Application. **CHAMBLY CANTON, QUE.**

PAINT, OIL AND BRUSH TRADES

LINSEED OIL MILLS PURCHASED.

OF all the mediums or vehicles used in applying white lead or painting material, none has been found as useful as good linseed oil. In every commodity there is, of course, a difference, and the ideal paint and varnish has, as one of its ingredients, what is generally known as a "medium," pure linseed oil of the highest possible quality. The oil should be plump, and free from an excess of mucilagenous matter, eliminating everything that makes for, what is technically termed, "tackiness." Having in view to obtain the best the world produces, the Canada Paint Co. have acquired the Winnipeg Linseed Oil Mills with the elevator and lands adjoining, the object of the purchase being two-fold. First, to obtain for their varnish and paint departments, strict uniformity in the matter of oil, it being well known that Manitoba and the northern country produces seed yielding a full-bodied, clear, bright oil, which is matched only by the Baltic seed, the latter commanding at all times a much higher price than that of any other description of seed. Steps will be taken by the Canada Paint Co. to ensure the selection and cleansing of the Northwest seed, and the oil obtained therefrom, which is to be used in their manufacture, will relieve at once all anxiety as to the excellence of the finished product. Secondly, the Canada Paint Co. have in view their vast growing interests in this great country, and it has long been felt that their increasing trade in Manitoba and the Northwest demands a depot there. This purchase of the Linseed Oil Mills will be followed by the Canada Paint Co. eeecting works. On account of the solid support which has been given to this national company from all parts of the Dominion, the Canada Paint Co. feel warranted in making this extension and, in the near future, will probably have to enlarge the Montreal plant also.

Mr. W. H. Evans, when interviewed by a representative of Hardware and Metal, stated that their engineers were already on the ground inspecting the plant and making arrangements for improvements wherever necessary, in accordance with the latest methods in connection with the "expressing" of linseed oil from the seed. In reply to a question, Mr. Evans stated that the plant was conveniently situated in Winnipeg, being within easy walking distance of the heart of the city. The railway facilities are of the best, and undoubtedly the property is a valuable one.

THE TURPENTINE MARKET.

SPIRITS turpentine and rosins have advanced of late to such prohibitive figures that consumers are alarmed and are preparing to intrench on their requirements as much as possible, says the Paint, Oil and Drug Review. This is especially true of foreign buyers, who are hard hit by the late series of advances. English paint and varnish manufacturers, for example, are put at a great disadvantage in competing for export trade when turpentine and rosins are at the highest figure ever known. They are casting about for some reliable substitute for turps, but when it comes to rosins there is no substitute, and this fact makes it almost certain that rosin prices are destined to continue on a very high level. Decreasing production and increasing demand will bring about this result.

The sky-rocketing of turpentine has given impetus to the wood distillation industry, and no doubt from now on the wood distilled turps will be recognized in quarters where it has heretofore been refused admittance. This movement has gained greater headway in England and on the continent than in America, for the reason that the burden of high prices for naval stores has been heavier there. In England they are seriously discussing the formation of a "total abstainers' union" in relation to American spirits of turpentine. In other words, it has been suggested that users of spirits in that country refrain from buying any of the American article, or failing to carry the boycott to the extreme, that they use as little of it as possible. In this instance, however, American turpentine is absolutely essential to the production of a first-class product, in England as elsewhere, and to do without it entirely means the abandonment by manufacturers of many of their highest-grade goods.

It is a fact worthy of comment that spirits said to be of very good quality can be produced in India. Why this possible source of supply has been so long ignored by the British paint trade it is difficult to say. Now that the shoe pinches they are turning to India for relief. Russian turpentine is of so poor quality that it cannot take the place of American; and the supply of other substitutes in England is entirely inadequate even though the quality might be improved.

Foreign consumers of our naval stores are thoroughly imbued with the idea that the high prices are the result of combination in the primary markets of this country. The English trade press is emphatic in its characterization of the "intolerable" spirits turpentine situation as due to "the simple power of combination in certain irresponsible individuals." There is some excuse for this view, since the naval stores market has undeniably suffered in the past from successful combinations, but to charge the entire course of the market to manipulation is manifestly unjust.



TO THE VARNISH BUYER

the most serious considerations are quality, reliability and uniformity, and these qualifications are of special importance to the dealer who is trying to build up a permanent varnish trade.

Berry Brothers' label or brand may be safely relied upon as ensuring the above conditions.

Our varnishes are the safest goods to handle and the surest and most reliable goods to use.

BERRY BROTHERS, Limited

VARNISH MANUFACTURERS

WALKERVILLE, ONT.

Write for our 100 page illustrated catalogue. Every dealer should have a copy for reference.

McArthur, Corneille & Co.

MONTREAL

Glue and Gelatine

An extensive assortment, to suit all requirements.
WILL BE PLEASED TO SUBMIT SAMPLES AND PRICES

MANUFACTURERS AND IMPORTERS OF . . .

White Lead, Oils and Colors, Prepared Paints, Window Glass, Varnishes, Etc.

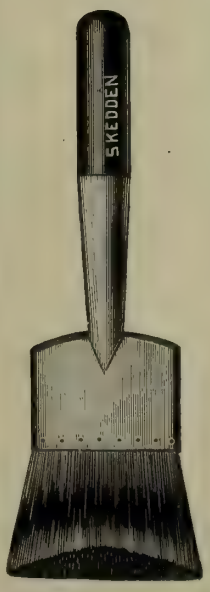
SELLING AGENTS IN CANADA

For the GENUINE
Imperial French Green
of JOHN LUCAS & CO., PHILADELPHIA.

And CELEBRATED
English Varnishes
of CHAS. TURNER & SON, LONDON.

Please mention HARDWARE AND METAL when writing.

IT IS WISE



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SKEDDEN BRUSHES

High Grade Low Prices
Every kind of brush
All stamped "Skedden"
Write for Catalogue to-day

The Skedden Brush Co., Limited, Hamilton, Ont.

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ANCHOR BRAND
H&P REGISTERED
TRADE MARK

A RECORD BREAKER!!

Is what we may call the unprecedented demand THIS SPRING for

"ANCHOR LIQUID HOUSE PAINTS"

Satisfying the customer by supplying a SUPERIOR PAINT has produced the desired result, and everyone knows that a SATISFIED CUSTOMER is the best possible advertisement. That's what we aim at, and results continue to prove that it can be accomplished with our

Anchor Liquid Paints

The only **White Lead** used in which, "BRANDRAM'S B. B. GENUINE," has been the WORLD'S STANDARD for nearly 200 YEARS.

BRANDRAM BROS & CO. BRANDRAM'S B. B. WHITE LEAD REGISTERED TRADE MARK MANUFACTURERS LONDON ENGLAND

Manufactured by

HENDERSON & POTTS, Limited
HALIFAX and ST. JOHN

HENDERSON & POTTS CO., LIMITED
MONTREAL and WINNIPEG

Paint and Oil Markets

QUEBEC.

Office of HARDWARE AND METAL,
232 McGill Street,
Montreal, June 16, 1905.

ALTHOUGH well advanced in June, the demand for all classes and varieties of painting material continues to be very active. Indeed, the demand of this year has been so great that local manufacturers find it somewhat difficult to keep up with the orders. The warm weather of the past few days has caused the appearance of the potato bug, and as a result Paris green is beginning to move more freely. Turpentine has had a marked decline in the south, but until lower-priced shipments arrive in this market no substantial decline is expected. The decline of 5c. per gallon last week was effected more in sympathy than with the practical conditions. The recent decline at the manufacturing point amounted to in the neighbourhood of 20c. per gallon, and as soon as new shipments begin to arrive a similar decline is expected here. Prices, however, supposing that such a decline does occur, will be firm on account of the numerous foreign buyers on the market, and the strong indications of a crop inferior to that of last year. Linseed oil continues to be steady, both on the English and local markets. A reliable idea concerning the exact condition of shellac is difficult to obtain. At present prices are steady, but there is a strong tendency indicating that a change will take place shortly. A strong demand for white lead continues to be prevalent.

Canadian Paris Green — Barrels, 15 1-4c.; arsenic kegs, 15c.; 50 and 100-lb. drums, 16c.; 25-lb. drums, 16 1-2c.; one pound packages, 17c.; half-pound packages, 19c.; one pound tins, 18c. Terms 2 per cent. discount for cash in 30 days or 90 days net.

English Paris Green—Pure English Paris green, petroleum barrels, 15 1-4c.; arsenic kegs, 15 1-2c.; 50 and 100-lb. drums, 16c.; 25-lb. drums, 16 1-2c.; one pound paper boxes, 17c., one pound tins, 18c.; one-half pound paper boxes, 19c.; one-half pound tins, 20c. Terms, 2 per cent. off thirty days, or ninety days net from date of shipment.

Turpentine—Single barrels $1 per gallon; two to four barrels, 99c. per gallon. For smaller quantities than barrels, 5c. extra per barrel is charged. Standard gallon is 8.40 lbs. f.o.b. point of shipment, net 30 days.

Linseed Oil—Raw, one to four barrels, 52c.; five to nine barrels, 51c.; boiled, one to four barrels, 55c.; five to nine barrels, 54c. f.o.b. Montreal., Net 30 days.

Ground White Lead — Best brands Government standards, $4.70 to $4.85; No. 1, $4.45 to $4.60; No. 2, $4.20 to $4.35; No. 3, $3.87 1-2 to $3.97 1-2; No. 4. $3.50 to $3.60, all f.o.b. Montreal.

Dry White Zinc—Pure dry in casks, 7c.; in 100 lb. kegs, 7 1-2c.; No. 1 zinc, in casks, 6c.; in 100-lb kegs, 6 1-2c.

White Zinc (ground in oil)—Pure. 25 lb. iron, 7 1-2 to 10c.; No. 1, 6 1-4c.; No. 2, 5 1-4c.

Putty—Pure linseed oil $1.75 to $1.85. Bulk in barrels, $1.50; in 25-lb. irons, $1.80; in tins, $1.90; bladdered putty in barrels, $1.75.

Orange Mineral—Casks, 7 1-4c.; 100-lb. kegs, 7 1-2c.; smaller quantities, 8 1-2c.

Red Lead—Genuine red lead in casks, $4.50; in 100-lb. kegs, $4.75; in less quantities at the rate of $5.75 per 100 lbs.; No. 1 red lead, casks, $4.25; kegs, $4.75, and smaller quantities, $5.50.

Shellac Varnish — Pure white in barrels $2.30 to $2.50; pure orange, $2 to $2.20; No. 1 orange, $1.90 to $2.10.

Mixed Paints—$1.20 to $1.40 per gallon.

Castor Oil—8 3-4c. to 9 1-4c. in wholesale lots, and 1-2c. additional for small lots.

Litharge—Ground, in casks, 5c.; in less quantities, 5 3-4c.; flake litharge, casks, $5.50; smaller quantities, $6 per 100 lbs.

Refined Petroleum—No change has occurred on this market. Prices are steady. Our quotations are: American prime white 14 1-2c., American water white 16c.

ONTARIO.

Office of HARDWARE AND METAL,
10 Front street east,
Toronto, June 16, 1905.

OWING to conflict between Jacksonville and Savannah conditions of turpentine have changed during the week. Large supplies sent into Savannah have brought about a reduction. It is expected that new turpentine will arrive in Toronto next week, when the price for single barrels will be reduced to $1 per barrel or less. It will pay buyers to hold off for a week or fortnight before purchasing in any quantity.

All the linseed oil coming forward from England has been placed as rapidly as it has reached here, and the market remains bare, and as English prices remain firm prices have been advanced 1c. per gallon by some dealers.

Mixed paints are being sold in large quantities, the market being very satisfactory. Orders for other lines have not been as large during the past week as about the first of the month.

White Lead—Ex Toronto, pure white lead. $4.75; No. 1, $4.37 1-2; No. 2, $4; No. 3, $3.62 1-2; No. 4, $3.35 in packages of 25 lbs. and upwards; 1-2c. per lb. extra will be charged for 12 1-2 lb. packages; genuine dry white lead, in casks, $4.25.

BEAUTIFUL AND PERMANENT

Gold Paint, Silver Paint

Ready mixed, all ready to apply, for the artistic decorating of any articles of wood, metal, paper, pottery, plaster, stone, etc. Packed in neat display boxes containing one dozen each. We will gladly furnish quantities and prices.

THE STANDARD PAINT & VARNISH WORKS CO., LIMITED, Windsor, Ont.

"The Tool Holder People"

Armstrong Bros. Tool Company

Manufacturers of Armstrong Patent Lathe and Plan Tools and other machine shop specialties.

617-621 Austin Ave., CHICAGO, ILL.

McCaskill, Dougall & Co.

Manufacturers

RAILWAY, CARRIAGE AND BOAT VARNISHES.
HIGH-GRADE FURNITURE and HOUSE VARNISHES

MONTREAL.

Subscribe to the

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for news of the British Oil, Paint, Soap, Varnish Chemical and Drysaltery Trades.

Subscription for Canada, $2.00 per year from date, post free. Sample for 10 cents.

SCOTT, GREENWOOD & CO.
19 LUDGATE HILL - LONDON, ENG.

GLUES AGAIN

Our IMITATION FRENCH MEDAL GLUES are of such high class and are so suitable for Export that we would like to quote you. Export trade in this line is growing rapidly, and we pack in casks or cases as preferred. Quality unrivalled.

GROVE CHEMICAL CO., LTD., Appley Bridge, Lancashire, Eng.

GENUINE

PRATTS ASTRAL LAMP OIL

Sold in all countries and recognized as the highest grade oil manufactured.

WHOLESALE ONLY.

THE QUEEN CITY OIL COMPANY, Limited
TORONTO, ONT.

We Have the Glass You Want

—THE PRICE IS RIGHT.—

Our Distributing Centres keep down your freight charges and give a speedy delivery

The Consolidated Plate Glass Co., of Canada, Limited

TORONTO MONTREAL LONDON
OTTAWA WINNIPEG

ISLAND CITY
STANDS FOR
QUALITY

YOU
SHOULD STUDY THIS SIGN
BEFORE PLACING

YOUR NEXT ORDER

P. D. DODS & CO.

WINNIPEG, VANCOUVER
TORONTO — MONTREAL



This is the picture of a good healthy girl using our Varnish Floor Stain.

Varnished Floors make healthy homes.

Will varnish and stain with one application.

Avoid colored varnishes with jim-crack, silly names, and order

The CANADA PAINT COMPANY'S VARNISH FLOOR STAIN

NOTE: Equally good for all woodwork. In handy packages ready for use.

Red Lead—Genuine in casks of 560 lbs., $4.50; ditto, in kegs of 100 lbs., $4.75; No. 1, in casks of 500 lbs., $4 to $4.25; ditto in kegs of 100 lbs., $4.50.

White Zinc—Genuine French V. M., in casks, $6.50 to $7; Lehigh, in casks, $6 to $6.50.

Shingle Stain—In 5-gallon lots 57 to 90c. per gallon.

Paris White—90c. to $1 per 100 lbs.

Whiting—60 to 65c. per 100 lbs.; Gilders' whiting, 75c.

Shellac Varnish — Pure orange in barrels, $2.60 to $2.80; white, $2.65 to $2.90 per barrel; No. 1 (orange), $2.25.

Linseed Oil—Our quotations are: Raw, 1 to 4 barrels, 56 to 57c.; boiled, 59 to 60c.; 5 to 9 barrels, raw, 55 to 56c.; boiled, 57 to 58c.; Toronto, Hamilton, London and Guelph, net 30 days. Advance of 2c. for delivery to outside points.

Turpentine—Single barrels, $1.05 to $1.15; 2 to 4 barrels, open; 5 barrels and over, open, f.o.b. point of shipment, net 30 days. For less quantities than barrels, 5c. per gallon extra will be added, and for 5 gallon packages, 50c., and 10 gallon packages 80c. will be charged.

Paris Green—600 lb. barrels, 13 1-4c.; 250 lb. kegs 13 1-2c.; 50 lb. drums, 14 1-2c.; 1 lb. packets, 15c.

Glues—Broken sheet, in 200 lb. barrels, 5 to 25c. per lb.; cabinet glue, in barrels, 11 1-2 to 12c.; emery glue, in barrels, 15c.; bookbinders' ground, 11 1-2c.; finest American white, 19c.; No. 1 American white, 15c. per lb.

Putty—Ordinary, bladders in barrels, $1.65 to $1.75; pure linseed oil, $2 to $2.10; bulk in barrels, $1.50; pure, $1.95 to $2; 100-lb. kegs 25c. extra.

Plaster Paris—New Brunswick, $2 per barrel.

Liquid Paints—Pure, $1.20 to $1.35 per gallon; No. 1, $1.10 per gallon.

Barn Paints—70c. to 80c.

Bridge Paints—75c. to $1.

Castor Oil—English, in cases, 8 1-2 to 9c. per lb., and 10c. for single tins.

Refined Petroleum—A normal business is being done. We quote: Water white, 16c.; Canadian prime white, 14 1-2c.; American water white, 16 1-2c. to 18 1-2c. ex warehouse.

Crude Petroleum—Conditions are unchanged. We quote: Pennsylvania, $1.29; Ohio, 84c.; Somerset, 81c.; Indiana, 88c.; Canadian, $1.27.

Glass—See current quotations at the end of this issue.

WINDOW GLASS—MONTREAL.

Receipt of reports concerning the settlement of the labor troubles in Belgium has been the most noteworthy feature on the market during the past few days. The settlement of the strike, however, at this late period of the year will in no way affect the prices this season, and the present figures are expected to remain firm until the end of this year. Retail merchants who are expecting to receive import orders for Fall trade are strongly advised to place these orders at once, if they have not already done so, as the heavy drain on the plants in Belgium from all the markets of Europe, as well as of America, will make it impossible to supply an amount sufficient to satisfy the demands of all. Small shipments have been arriving at intervals during the past month, but the absence of the sizes most in demand is quite noticeable, and local dealers have to resort to cutting up the larger sizes, which means a waste and a loss to themselves. We quote: First break, 50 feet, $2.00; second break, $2.10; first break, 100 feet, $3.75; second break, 100 feet, $3.95; third break, 100 feet, $4.50; fourth break, 100 feet, $4.75; fifth break, 100 feet, $5; sixth break, 100 feet, $5.50; seventh break, 100 feet, $6.00; and eighth break, 100 feet, $6.50. Diamond star, first break, 50 feet, $2.30; second break, 50 feet, $2.50; first break, 100 feet, $4.40; second do., $4.80; third do., $5.75; fourth do., $6.50; fifth do., $7.50; sixth do., $8, and seventh do., $9. Double thick, first break, 50 feet, $3.45; second do., $3.75; first break, 100 feet, $6.75; second do., $7.25; third do., $8.75; fourth do., $10; fifth do., $11.50; sixth do., $12.50; seventh do., $14; eighth do., $16.50; ninth do., $18; tenth do., $20; eleventh do., $24, and twelfth do., $28.50.

LINSEED OIL OUTLOOK.

Latest mail advices from London report the linseed oil market firm and steady, the strength being due to the comparatively light receipts. Imports into London from January 1 to May 25 were 240,667 quarters, against 339,165 quarters in the corresponding time last year. The quantity afloat for United Kingdom ports on the latter date was 362,000 quarters, compared with 336,000 in 1904 and 247,000 in 1903. This showing would indicate a possible heavier receipt of flaxseed in the near future and consequent lower prices; but in general the conditions favor a firm market. The big imports into London now are of Argentine seed, and the supply seems to be holding out surprisingly well.

CANADIAN TRADE WITH AUSTRALIA.

J. S. Larke, Canadian commercial agent for New South Wales, Queensland and New Zealand, in a recent report to the Department of Trade and Commerce, Ottawa, says there is much disappointment at the result of the New Zealand preference upon Canadian trade. One of the reasons assigned is the poor facilities for getting at the market by direct shipping. Trade returns for 1904 show a decrease of £130,875 in Australian imports from Canada, although it must not be forgotten in this country that the drought caused imports in 1903 of breadstuffs, meats and butter of £168,537, which were not required in 1904. Imports from Canada totalled £222,064, and exports to Canada £29,352, a slight increase over the previous year.

CONDENSED OR "WANT" ADVERTISEMENTS.

YEARLY CONTRACT RATES.

100	words each insertion,	1 year	$30 00
"	"	6 months	17 00
"	"	3 months	10 00
50	"	1 year	17 00
"	"	6 months	10 00
25	"	1 year	10 00

BUSINESS CHANCES.

IF you wish to buy or sell a business anywhere in Western Canada, it will pay you to communicate with us. We have some good legitimate propositions on our list; handle nothing else. Address The Business Brokers, 611 McIntyre Block, Winnipeg, Man. (tf)

MANUFACTURERS' AGENT WANTED.

A LARGE firm of bedstead manufacturers in Birmingham, Eng., are open to engage an agent in Canada for the sale of their goods. Address Box 254, HARDWARE AND METAL, Toronto. (tf)

BUSINESS FOR SALE.

HARDWARE business on Main Line C.P.R. in Manitoba. Stock fixtures $9 000. Solid stone store $3,500. Terms: Half cash, balance on easy payments. Purchaser can lease store if preferred. This is an old and well established business, paying handsome profits. Good reason for selling. For full particulars apply Box 256 HARDWARE AND METAL, Toronto. (24)

WANTED.

HARDWARE and stove salesman—Some experience; state salary. E. M. Shildrick, Paris.

MOULDER —First-class bench moulders wanted; married men preferred. Apply The Walkerville Malleable Iron Company. Walkerville, Ont.

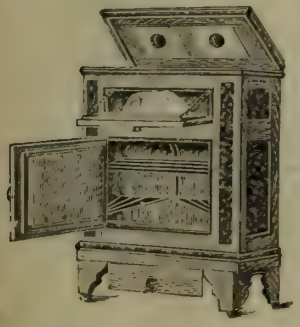
WANTED—Furnace man for the Vulcan Iron Works, Limited, foundry. Apply by letter to Box 1362, Winnipeg, Man.

Are you interested in any of the lines that are advertised?

A Post Card will bring you price list and full information.

Don't forget to mention Hardware and Metal.

REFRIGERATORS



Up-to-date dealers buy our lines because our refrigerators are unequalled for their finish, construction and general appearance. Write for Catalogue.

C. P. FABIEN
Refrigerator Manufacturer
MONTREAL, - - CANADA



OAK CABINET

Free of charge, given away with an order for Five half-dozens Scissors as illustrated above. Can be had through All leading Wholesale Hardware Firms.

THE LEADERS



STYLE "A"



STYLE "E"

Style "A" with Double Reversible Steel Bow Lever, Patented Cream Breakers.

Style "E" with Hand and Foot combination drive and spring attachment, producing an easy and elastic motion.

The Pittman is quickly detachable from churn.

Both styles are fitted with our improved Steel Ball Bearings and mounted on Rigid Angle Steel Stands.

THE DOWSWELL MANUFACTURING CO., LIMITED
HAMILTON, ONT.

TRADE INQUIRIES.

Correspondents desiring to get in touch with any o the firms referred to should quote the reference number when requesting addresses. For information write to Superintendent of Commercial Agencies, Department of Trade and Commerce, Ottawa.

718. A firm manufacturing gas retorts and various fire clay goods wishes to do business in Canada.

719. A manufacturer of incandescent mantles, etc., would like to hear from Canadian importers of incandescent goods.

720. A large Sheffield firm, manufacturers of all kinds of steel, and wire steel forgings, mining specialties, spring augers, anvils, hammers, saws, files, picks and chisels, desire to extend their trade with Canada and ask for communication with importers.

721. A Sheffield cutlery firm of all descriptions ask for direct communication with buyers from Canada.

722. A large Sheffield firm manufacturing silver and plated goods, plated cutlery, steel cutlery, britannia metal goods, gold and silver presentation work and church plate, ask for direct communication with dealers in Canada in these goods.

723. A Sheffield house manufacturing all descriptions of cutlery desire to extend their trade with Canada.

733. A Birmingham firm wish to get in touch with a firm who can supply them with mica.

735. A Birmingham firm inquires for manufacturers of broom handles, spades and D shovel handles.

739. A large firm at Stroud wishes to appoint an agent in Canada for the sale of their high-class steam-pipe fittings, etc.

740. An Oldbury firm wishes to get in communication with buyers of engineers' tools.

742. A Birmingham firm wishes to appoint an agent in Canada for the sale of their electro-plate and silver goods, spoons, forks, etc.

744. A Birmingham firm of specialists in all kinds of lamps wishes to get in touch with buyers in Canada.

745. A Coventry firm wishes to place electrical goods on the Canadian market.

746. A Birmingham firm manufacturing brass bedstead fixtures wishes to find a market in Canada. Would consider the appointment of an agent.

747. A Birmingham firm wish to place their brass tubes on the Canadian market. Would appoint an agent.

749. A Staffordshire firm manufacturing all kinds of roofing tiles is open to appoint an active man for the sale of their goods in Canada.

751. A large firm in Walsall wishes to get in touch with users of steel hames.

752. A Birmingham firm manufacturing enamel, copper letters and tablets wishes to find an opening for business in Canada.

754. A Birmingham firm manufacturing hinges, castors, handles and brass foundry wishes to open up business with Canadian firms.

755. A Wolverhampton firm wishes to find a market for boilers in Canada. On the Admiralty list.

757. A Walsall firm wishes to appoint a representative in Canada for the sale of engineers' tools.

REMOVED TO NEW QUARTERS.

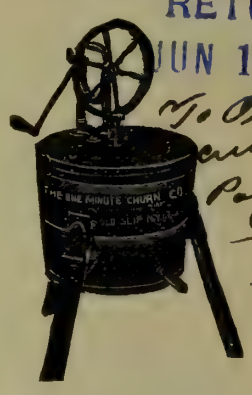
The Paterson Mfg. Co., Limited, of Montreal, manufacturers of building papers, roofing felts and wire edged ready roofing, after occupying their old premises on Murray street for almost thirty years, have removed to their new factory and warehouse at the corner of Carrierre and St. Hubert streets.

These new buildings are substantially built of stone and brick, and are situated on a private railway siding, and have a floor space of over 20,000 square feet.

The above factory contains the most modern plant and machinery, and, with the increased storage accommodation now at their disposal, the Paterson Mfg. Co., Limited, will be in a position to promptly fill all orders for the material they manufacture.

ONE MINUTE CHURN.

The One Minute Churn Co., Inc., Old Slip, New York, are manufacturers of the One Minute Churns shown in the accompanying illustration. They state that this is a perfect milk and cream aerator churn, which makes butter in 60 seconds with either sour or sweet cream, and that it produces absolutely the purest and finest grade of granular butter, which always commands the highest price and eliminates casein or albumen, which causes all offensive taints and prevents butter from becoming rancid. It is invaluable in restaurants, hotels and clubs for churning sour milk and cream.



RETURNED
JUN 19 1905
To Owner
Ref Book 36
Page 77A

CANADIAN vs. SCOTCH PIPE.

UNITED STATES Consul-General Holloway, Halifax, Nova Scotia, states that the manufacturers at Londonderry, Nova Scotia, are up in arms because of want of sufficient protection, which enabled the Scotch pipe manufacturers to underbid them $1.50 a ton on a large contract for pipe for the City of St. John, New Brunswick. A correspondent of the Halifax Herald says that Canadian pipe foundries are up against Scotch competition—unfair competition at that—until such time as the Government shall come to the assistance of the home concerns by giving them adequate protection such as they have long been seeking. The correspondent continues "Some will say there is a duty on water pipes. Quite true; a duty of $8 a ton, with the 33 1-3 per cent. British preference off, leaving the Scotch pipe subject to a duty of $5.35. Up to the time of the change of Government in 1896 the duty was $10 a ton. The Minister of Finance struck off $2 on the ton, making the duty $8 a ton. Add to the $2 the 33 1-3 per cent. preference off $8, and it will be seen that Canadian pipe has $4.65 less protection against British pipe than it had in 1896, and $2 less against foreign pipe—that is, pipe made in the United States and other countries not acknowledging allegiance to the British flag.

"There is, then, a duty of $5.35 on Scotch pipe coming into Canada. This, of course, would be adequate protection to the Canadian concerns were conditions affecting the manufacture of pipe equal in the two countries, but they are not. Scotch pipe can be manufactured much cheaper than Canadian. For instance, the Scotch concerns enjoy over the Canadian concerns an advantage of 20 per cent. in wages paid, $4 per ton in the cost of iron, and $2 per ton in the cost of coke. These advantages enable them to overcome the disadvantage of the Canadian duty of $5.35, to pay freight, and to make a fair profit at least."

TRADING STAMP BY-LAW.

As a result of legislation obtained by the Retail Merchants' Association at the recent session of the Legislature, E. M. Trowern, secretary, has prepared for the city, town and village councils of Ontario a draft by-law for the regulation and restriction of the use of trading stamps and coupons by merchants. The measure which he recommends for adoption is as follows:

"No person shall, in the City of Toronto, give, sell, distribute or receive trading stamps, coupons, or other similar devices, and no person, firm or corporation engaged in trade or business shall give, sell or deal in such trading stamps, coupons, or other similar devices. Provided, however, that this by-law shall not apply to any merchant or manufacturer who places in or upon packages of goods, or delivers to purchasers of goods, sold or manufactured by him, at the time of such purchase, tickets or coupons, which bear upon their face the place of delivery thereof, together with the cash or merchantable value of the same, and are redeemable at any time, and only by the merchant or manufacturer giving them, and only at the store or factory where such goods were sold or purchased."

The penalty for breach of the by-law is to be $50 and costs for each offence, or in case of default, imprisonment for a period not exceeding six months.

SEALED TENDERS addressed to the undersigned, and endorsed "Tender for Postal Station "F" Toronto, Ont.," will be received at this office until Tuesday, June 20, 1905, inclusively, for the construction of Postal Station "F" Toronto, Ont.

Plans and specification can be seen and forms of tender obtained at this department and on application to H. E. Hamilton, Esq., Resident Engineer, Examining Warehouse, Toronto, Ont.

Persons tendering are notified that tenders will not be considered unless made on the printed form supplied, and signed with their actual signatures.

Each tender must be accompanied by an accepted cheque on a chartered bank, made payable to the order of the Honourable the Minister of Public Works, equal to ten per cent. (10 p.c.) of the amount of the tender, which will be forfeited if the party tendering decline to enter into a contract when called upon to do so, or if he fail to complete the work contracted for. If the tender be not accepted the cheque will be returned.

The Department does not bind itself to accept the lowest or any tender.

By order,
FRED. GELINAS,
Secretary.

Department of Public Works,
Ottawa, May 27, 1905.

Newspapers inserting this advertisement without authority from the Department, will not be paid for it.
(24)



COVERT MFG. CO.
Troy, N.Y.

Auto Screw Jack

Harness Snaps, Chain, Rope and Web Goods, etc.

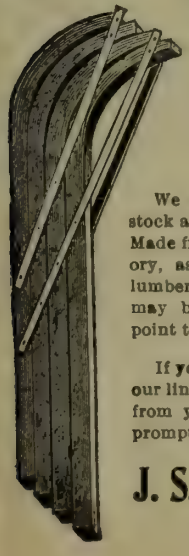
FOR SALE BY JOBBERS AT MFRS. PRICE

Herm. Weissenburger & Co.
Cannstatt, Germany

SPINNERS
STAMPERS
PIERCERS
PLATERS
and JAPANNERS

Nickel plated, fancy, household and kitchen articles; advertising and shop front clocks; articles for export made to order and German hardware bought and shipped on commission.

The Sarnia Hub, Spoke and Bent Goods Mfg. Co.,
SARNIA, ONTARIO



We are prepared to fill any orders for

HEAVY WAGON, SLEIGH, BUGGY, —and— CUTTER STOCK.

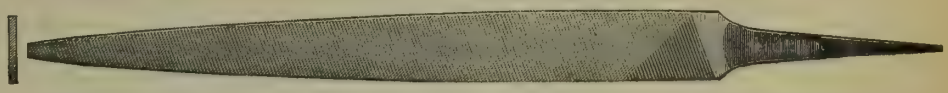
We make a specialty of heavy stock and can fill orders promptly. Made from the best of oak and hickory, as we carry a large stock of lumber and can make any sizes that may be required. We make it a point to fill orders promptly.

If you are in need of anything in our line we will be pleased to hear from you and we will give it our prompt attention.

J. S. Loughead & Son
SARNIA, ONT.

Globe Brand Files and Rasps
WARRANTED

Possess all the merits of the Best Hand-Cut Files. For sale by all prominent Hardware Dealers.



Thirty years' experience has taught us how to produce a Perfect File, consequently we are justified in giving our customers an absolute warranty with our product.

NICHOLSON FILE COMPANY
FACTORIES:
Providence, R.I., Paterson, N.J., Beaver Falls, Pa., Anderson, Ind., Port Hope, Canada.

A PERMANENT and Handsome Roof.



Arrow Brand Asphalt Ready Roofing

Will bring you profitable trade and satisfied customers. Comes in rolls ready to lay, all ready covered with gravel. Requires no experience to lay, and lasts for years without further attention.

A. C. JENKING & CO, Sole Agents,
Room 215 Corlstine Building, - MONTREAL.
Sole agents being appointed in each district. Write to-day.

ASK YOUR JOBBER FOR
GILBERTSON'S
COMET
Brand Galvanized Sheets

Cost less than some other brands, but will do your work equally well—Every Sheet guaranteed.

Makers: W. GILBERTSON & CO., Limited
Pontardawe, South Wales.

A Good Line
BEAVER POST-HOLE DIGGER

Will please your customer. A pleased customer is an asset to any business.

No wood to rot, check or break. Special discounts to the trade.

CANADA FOUNDRY COMPANY, LIMITED
HEAD OFFICE AND WORKS: TORONTO, ONT.
District Offices: Montreal, Halifax, Ottawa, Winnipeg, Calgary, Vancouver, Rossland

A New Revolver!



MODEL 1904

H. & R. Double Action
Model 1904
38 Caliber
also 32 Caliber
6 Shot.

A solid frame revolver following the pleasing lines of our famous H. & R. Automatic, and which we are supplying in place of the American Double Action, as made by us for more than twenty years.

SPECIFICATIONS

32 caliber; 6 shot; 2½ inch barrel; weight 16 oz; C. F. S. & W. cartridge; also S. & W. Long and Colt New Police Cartridges.
38 Caliber; 5 shot; 2½ inch barrel; weight 15 oz.; C. F. S. & W. cartridge.
FINISH—Nickel or blue. We can also furnish with 4½ and 6 inch barrels.

Harrington and Richardson Arms Co.
Worcester, Mass., U. S. A.
Makers of H. & R. Single Guns. *Catalog on Request*

SOL-A-RINE

The Great Polish

For all planished metals, Liquid Form, Screw Top Tins. No stock complete without it. What the trade say: "Sells better than any other."

Send for Circular

H. F. FALKINER,
60 George St., TORONTO



OAKEY'S The original and only Genuine Preparation for Cleaning Cutlery. 6d. and 1s. Canisters

'WELLINGTON' KNIFE POLISH

JOHN OAKEY & SONS, LIMITED

MANUFACTURERS OF

Emery, Black Lead, Emery, Glass and Flint Cloths and Papers, etc.

Wellington Mills, London, England

Agent:

JOHN FORMAN, 644 Craig Street
MONTREAL.

Bolton, Fane & Co.

98 Leadenhall Street, London, E.C., Eng.

TINPLATES

In all qualities and sizes

Bessemer Coke	"Lofoden" Brand
Seimens Coke	"Pelican" Brand
Charcoal	"Mocha" Brand
Best Charcoal	"Cardigan" Crown Brand
Staffordshire Bar Iron	B.G. Crown Brand
Galvanized Sheets	"Pelican" and "Ostrich" Brands

Boiler Plates, Rails, Fishplates, &c., &c.

R. SULLIVAN DAVID

Selling Agent for Canada, 210 St. James St., MONTREAL

TELEPHONE, MAIN 3893

Cooper's Improved Patent One-Piece Stovepipe Elbows



The Heaviest and Best Elbow on the market. Measures 23 inches long at the back.

Send in for sample dozen.

Polished or Common.

E. T. WRIGHT & CO., Manufacturers and Sole Patentees,

Hamilton and Montreal

We are prosecuting all infringements on our patent.

STOVES AND TINWARE.

BASE BURNER REGAINING FAVOR.

ONE of the most difficult problems of a manufacturer is to forecast the demands of the great, mysterious and often fickle buying public. In no line of manufacture is this problem greater than in stoves. Several years ago, for instance, there was great rivalry between makers as to which should produce the most ornate and highly-perfected base burning heater. The demand warranted this rivalry, and the public freely bought the elaborate and expensive creations of this class. Then came the hard coal famine and the education of the public to the belief that it was being ground down by the anthracite "coal barons." Immediately the sale of hard coal base burners fell off amazingly, and stove makers were taxed to their utmost to produce inexpensive soft coal stoves to meet the demand. Even after the anthracite coal situation became normal the feeling of distrust on the part of the public, coupled with the existence of large stocks of base burners carried over, induced stove makers to hold down their production of these high-priced goods to the minimum.

Then suddenly, last year, the reaction set in. There had been a long enough period of experience with soft coal and with cheap stoves to lead to a quite general demand for hard coal base burners. Contributing to this demand was a very general agricultural prosperity which gave the great buying public the wherewithal to gratify its desire for higher-priced stoves. As is well known, this demand caught most of the manufacturers napping, and there was an actual shortage of base burners in the market. This year stove manufacturers generally are profiting by that experience, and have in the aggregate probably doubled their factory instructions for base-burning heaters. There is already encouragement to believe that the great output of these goods for 1905 will be absorbed at prices that show a good profit.—Metal Worker.

COOK STOVES IN JUNE.

WHILE the Spring and the Fall are nominally the cook stove seasons, yet it would be foolish for a stove man to relax his efforts at any time, says the Hardware Trade. There is always some one buying cook stoves. For instance, June is a great month for weddings. A wedding presupposes a new household, and that includes a new stove or two. Here is a chance for the stove man to get in a little extra business. Then there are constantly changes going on. Families move and leave the stoves behind. They are likely to arrive at their destination in July or August, or any other month, and will immediately want new stoves. Then with the building going on, many persons will want a new range to put into the new house when it is completed, and so on. These are some of the reasons why the stove trade is never over. A man is likely to buy a cook stove in any one of the twelve months of the year. Don't go on the theory that it is a Spring and Fall business exclusively.

PYRAMID TOASTER.

A novelty which is meeting with a large sale on account of its many advantages is the Pyramid Toaster, manufactured by the McClary Manufacturing Co., London. It can be used with gas, gasoline or blue-flame oil stoves, and



RETURNED
JUN 19 1905
To Owner
our Book 3
Page 78

four slices of bread can be toasted at one time, besides heating a tea or coffee-pot on the top, being very economical in saving fuel by doing from two to three times as much with the expenditure of no extra heat.

NEWS NOTES AND GOSSIP.

The James Smart Manufacturing Co., Brockville, have secured the contract for heating and ventilating the new Baptist Church at Forest, Ontario.

Put the stove catalogues away in a safe place. Arrange them alphabetically so that any one can easily be found. In this way you may have a chance to sell a stove that you have not in stock. The customer may want a make that you do not carry and insist on having it.

Manufacturers are cutting out a good deal of the nickel that was once so important on a range. It has been found that the housewife cares little for it. Just enough to keep the stove from appearing too plain is what most of them want. Any more is superfluous and only makes trouble in keeping it clean.

The Iron and Steel Trades Journal says very gratifying reports are to hand as to the prospects of the Transvaal as a tin-bearing district. A great deal has recently been written concerning the Vlaklaagte tin areas and their possibilities, and recent developments, while pointing to the fact that there are many difficulties to overcome, go to prove that ore of extraordinary richness exists in vast quantities.

Butler's
Famous Cutlery
AND
Electro-plate.

Sole Makers of Butler's "KEEN" Razors, the "Cavendish" Brand of Table Knives, Carvers, and Plate (Regd.).

HIGHEST AWARDS. SPECIAL MENTION.

GEORGE BUTLER & CO.'S
London Showroom:
62 HOLBORN VIADUCT, E.C.
(Over Snow Hill Station).
Manufactory: Trinity Works,
SHEFFIELD, ENGLAND.

"BUTLER" was Registered as a Trade Mark A D. 1768.

GRANTED A.D. 1681. ART 1861.

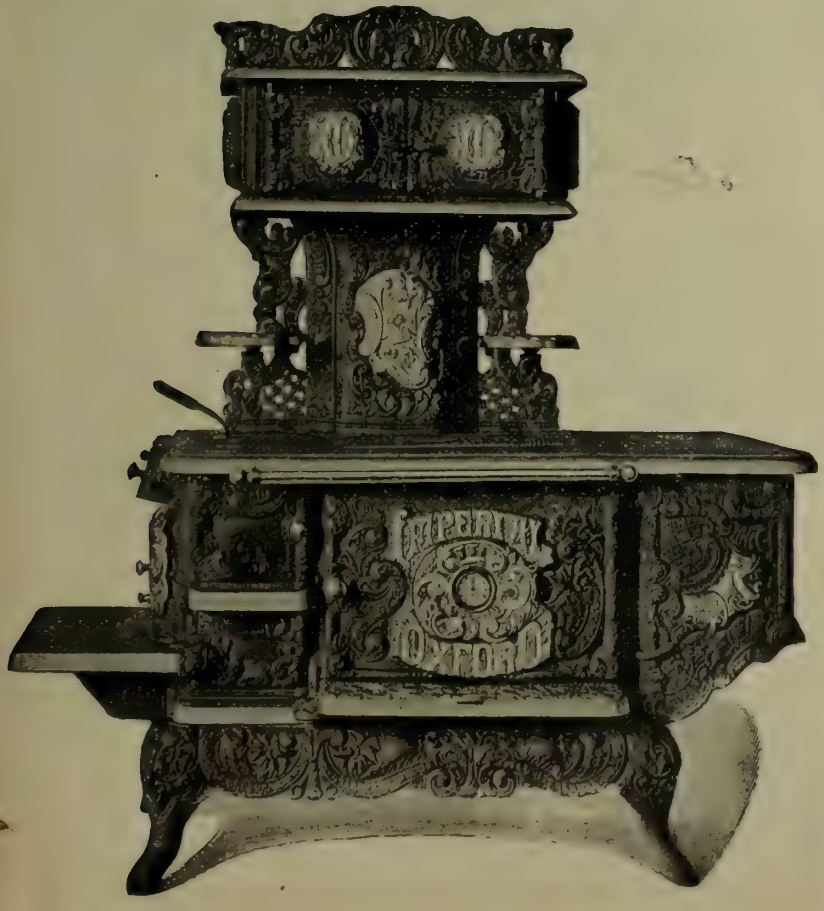
THE
Walker Pilot Steel Range



Nearly every stove catalogue contains this assertion, "No range has what is called a draft, the chimney provides the draft." But when the range is hitched to the chimney, consider the importance of a wide, evenly distributed draft along the entire length of the grate, as embodied in the Walker "PILOT," and affording perfect, even combustion, and then look at the small retarded draft under the fire door at the end of the grate as seen in so many ranges. The difference is obvious—Economy, Perfect Regulation and Quick Results.

WRITE FOR PARTICULARS

THE WALKER STEEL RANGE CO., LIMITED
GRIMSBY, Ont.



If you have been trying to sell poor ranges and have found that repairs which you have been called upon to make, have eaten up your profit and that it took a lot of your time and persuasive powers in the first place to make the sale, we think we can interest you in the

Imperial
Oxford Range

It is a range that lives up to every claim we make for it. It is easy to sell because we have told and are telling its good points through the daily press in a most persistent manner. Let's talk it over, or will write you full particulars.

The Gurney Foundry Co., Limited
Toronto Winnipeg Vancouver
The Gurney-Massey Co., Limited, Montreal,
The Gurney Standard Metal Co., Limited, Calgary, Alta.

BUILDING AND CONSTRUCTION

MODERN BUILDINGS FOR TORONTO

AMONGST the many new structures being planned for erection in Toronto at an early date, the new Builders' Exchange building at Bay and Adelaide street, to cost $100,000, is one of the most important. It is to be a sky scraper, with bank premises on the ground floor.

Wyld, Darling & Co., are to erect a large office and warehouse building at Adelaide and Sheppard streets.

R. J. Cluff & Co., the new plumbing supply firm, are to build on Sheppard street, and ground will be broken in a short time.

The Molsons Bank have decided to build a fine structure on Bay street, just behind the Mail building, while the Canada Life Assurance Co. will extend their building to Bay street as soon as the Molsons Bank vacate their present premises.

The National Club are also to build on Bay street, they having secured the old Robinson House, which will be replaced by a modern club house.

The Bank of Toronto has secured the southwest corner of Bay and King streets, and will erect a new bank building there.

Another five-storey office building is to be erected at the northeast corner of Bay and Adelaide streets, by F. G. Stair, the plans now being prepared by Woodruff and Robins.

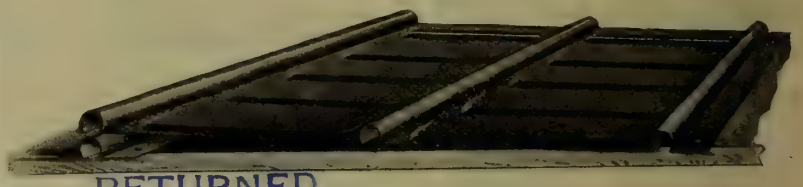
The managers of the Hamilton Bridge Co. have been notified that the company's tender for the steel work for the new Traders' Bank building, at Yonge and Colborne streets, has been accepted, and the contract awarded to the Hamilton concern. The Bridge Co. is under bond to have all of its work completed by December 1, and an immediate start will be made on the fourteen-storey building.

"SURE GRIP" STEEL SHINGLES.

THE day of the wooden shingle is rapidly passing, and many excellent metal roofings are on the market at reasonable prices to take the place of the old time and in the past universally used shingle. Of the more up-to-date lines the advertising columns of Hardware and Metal have given full announcements, and the merits of the metallic goods, as compared with the wooden article, are now recognized by the hardware and building trades.



Principle of Lap Illustrated.



Cut Showing Locking Principle.

RETURNED JUN 19 1905

RETURNED JUN 19 1905

To Owner

Of the newer lines the "Sure Grip," manufactured by the Galt Art Metal Co., Limited, and illustrated by two cuts showing the locking and lapping principles, is winning favor amongst handlers of these lines. The man who has to depend upon himself to lay his roof finds the simple methods of laying metallic roofing of great advantage, besides learning by experience the additional good qualities they have of being wind, water, storm and fire proof.

Full directions as to the handling and laying of steel shingles and siding are given by the manufacturers in their printed literature, while instructions are also given as to making estimates of the amount of material required to cover various sized structures. Merchants desiring to secure information and literature from the Galt Art Metal Co., Galt, can do so by mentioning Hardware and Metal.

BUILDING NOTES.

James Marshall will erect a $20,000 hotel at Phoenix, B.C.

Charles Myles will erect a $20,500 warehouse at Hamilton.

A new hotel and theatre building is to be erected at Vancouver.

This week's report of building permits in Toronto totals $326,150.

A Presbyterian church and manse is to be erected at Prince Albert, Sask.

J. Dodson, Vancouver, is to erect a $4,000 building on Westminster avenue.

Bedford & Mitchell, Melita, Man., are building a new machine and blacksmith shop.

Mr. Bright, of Bright & Johnston, Winnipeg, is to erect a large apartment block.

Emery & Thompson's sash and door factory, at Fort Frances, is nearly completed.

C. F. Jackson & Co., Vancouver, are to erect a three-storey warehouse, 100 x 60 feet.

The contract has been signed by Rupert H. Bradburn with the New York Theatrical Stock Exchange for the erection of a new $30,000 opera house at Peterboro, with a seating capacity of 1,500, to be completed by October 1.

A five-storey business block is to be erected at Amherst, N.S., by J. Robson Douglass.

Mr. Reid, a Winnipeg contractor, is building two $4,000 modern brick houses on Burrows avenue.

A $25,000 Baptist church will be built in Vancouver to take the place of the edifice destroyed by fire recently.

Building operations will commence at once on Cameron and Maudsley's new grist mill, at Gainsboro, Assa.

Mr. Ernest Harrison and Mr. Bell, of Bell & Co., painters, Winnipeg, will build residences at St. Charles this Summer.

C.P.R. have decided to gradually replace all their main line wooden bridges with steel, along the Pacific division. A step in this direction has just been taken in the letting of contracts to the British Columbia General Contract Co. for the replacing of the wooden piers of the company's main line bridge across the Pitt River, with concrete piers. The contract price is $40,000.

It is probable that 1905 will record the erection of more substantial and pretty residences in Victoria, B.C., than

"DOMINION BRAND" TARRED FELT
(THE OLD RELIABLE QUICK SELLER)

ROOFING PITCH
COAL - TAR

WHEN YOUR TRADE DEMANDS **THE BEST** ROOFING MATERIALS

CONSULT THE WELL-KNOWN MANUFACTURERS

LOCKERBY & McCOMB, 65 Shannon St., Montreal

The Finest on Earth

When seeking quality in saws the intelligent mechanic need go no further than the Atkins high-grade Silver Steel Hand Saws. In material, temper, finish, and cutting qualities they are perfect.
The Atkins Silver Steel Hand Saws with Perfection handle sell at sight. Dealers everywhere find them a good investment.
Write for catalog and prices.



ATKINS ALWAYS AHEAD

E.C. ATKINS & CO.
LEADING SAW MANUFACTURERS
INDIANAPOLIS, IND., U.S.A.

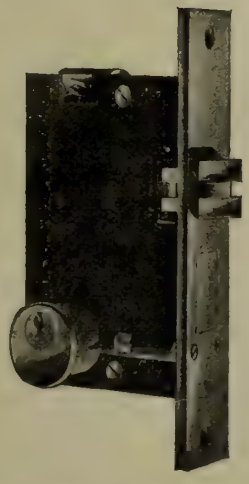
Canadian Branch
56 KING STREET EAST,
TORONTO, CAN.

"FIND A WAY OR MAKE IT"

SUCCESS AWAITS THE HUSTLER

Gurney Cylinder Locks

WILL SELL IF YOU WILL VOICE THEIR SUPERIORITY



Guaranteed
"Made in Canada"
High-Grade Material
Exact Workmanship
Fair Price

OUR CATALOGUE WILL BE OF VALUE TO YOU

THE GURNEY, TILDEN CO., Limited
HAMILTON

BRANCHES:
Winnipeg—Tilden, Gurney & Co., Limited
Vancouver—The Gurney, Tilden Co., Limited

AGENCIES
Montreal—Nicoll & Barr, 85 St. Peter St.
St. John—Nicoll & Barr, 38 Dock St.

any previous year of recent date. George Calder has received the contract far a new residence for Biggerstaff Wilson, to cost about $10,000. H. A. Munn is preparing to erect at an early date a fine residence on Terrace avenue.

John Shuart, Hamilton, will build a $2,000 brick house on Queen street, and Charles Rudolph will build a $1,700 house on Wilson street.

A handsome and magnificent structure, costing in the neighborhood of $500,000, for the Credit Foncier Franco-Canadien, will shortly be erected at the corner of St. Lambert Hill and St. James street, Montreal. The new building will contain a hundred and twenty-six offices besides the Credit Foncier's own quarters, and will be ten storeys in height, extending upward 132 feet to the heavy-cut cornices above. The offices are to be ventilated by a fan system, the tempered air thus secured being regulated automatically.

MONTREAL BUILDING PERMITS.

A. Dumauchel, dwellings, 1108 St. Andre street, $2,600.

Mrs. H. Henry, dwellings, 105 MacKay street, $10,000.

E. Lemoine, dwellings, Boyer street, St. Denis ward, $4,000.

G. Marcotte, dwellings, Moreau street, Hochelaga ward, $1,666.

Z. Riopel, dwellings, Durocher street, St. George's ward, $8,000.

F. Norman, dwellings, Stanley street, St. George's ward, $25,000.

Alex. McLaurin, alterations to dwelling, 137 Bishop street, $2,500.

Mrs. J. E. Cornier, dwellings, Roy street, St. Louis ward, $5,800.

S. D. Vallieres, dwellings, Marquette street, St. Denis ward, $2,500.

J. R. Wilson, alterations to warehouse, 708 Craig street, $5,000.

Seminary of St. Sulpice, dwelling, 1964 St. Catherine street, $1,500.

Mrs. W. Ewing, alterations to dwellings, 134 MacKay street, $15,500.

L. David, store and dwelling, St. Andre street, Lafontaine ward, $1,500.

Mrs. I. P. Costello, stores, corner of Palace and St. Denis streets, $3,000.

Montreal Light, Heat and Power Co., factory, corner of Marie Anne and Mentana streets, $10,000.

J. A. Jarry, alterations to dwelling and store, corner of St. Catherine and Marguerite streets, $3,000.

TORONTO BUILDING PERMITS.

T. J. Pascoe, dwelling, Radford street, $1,500.

A. W. Adams, dwelling, Marion street, $1,800.

Isaac Ritchie, dwelling, Bain avenue, $1,500.

G. Man, dwelling, 481 Preston avenue, $1,000.

S. Simpson, dwelling, Beatrice street, $2,000.

G. C. Wood, dwelling, West avenue, $2,000.

N. Boynes, dwelling, Davenport place, $2,000.

John McGlue, laundry, West Lodge avenue.

Geo. H. Sweet, bake-house, 28 Sorauren avenue.

A. E. Peglar, dwelling, 222 Pape avenue, $1,300.

F. Hooey, residence, 154 Garden avenue, $3,200.

Manton Bros., dwelling, Bartlett avenue, $1 000.

Miss Bethune, residence, Poplar Plains road, $7,500.

D. Todd, one pair dwellings, Hamilton street, $2,600.

John Tait, stable, 107 Parliament street, $1,300.

William Crawford, dwelling, Sword street, $2,000.

W. H. Brown, dwelling, Crawford street, $1,200.

A. Brock, one pair dwellings, Markham street, $4,200.

T. G. Brady, dwelling, Margueretta street, $2,500.

Mrs. G. W. Duncan, dwelling, Hampton avenue, $2,000.

Mrs. J. R. Fleury, dwelling, 58 Bolton avenue, $1,000.

F. J. Korman, dwelling, Powell avenue, $5,000.

Mrs. E. Tugman, dwelling, Palmerston avenue, $5,500.

W. R. Beattie, dwelling, Churchill avenue, $2,100.

A. E. Weatherbe, dwelling, Langley avenue, $2,500.

John J. Smith, dwelling, Emerson avenue, $1,400.

W. H. Bayliss, dwelling, 278 Gladstone avenue, $3,000.

A. W. Blatchford, dwelling, Nanton crescent, $5,500.

David Landsberg, butcher shop, 80 Elizabeth street.

George M. Bryan, dwelling, Chestnut Park road, $7,000.

Gardener & Ellerbey, dwelling Caroline avenue, $1,600.

J. D. Crane, one pair dwellings, Simpson avenue, $4,500.

Wesley Bulmer, stone dwelling, Concord avenue, $3,600.

Walter Stubbings, one pair dwellings, Grace street, $3,800.

Albert R. Wright, store and dwelling, Avenue road, $3,300.

Herbert Galbraith, one pair dwellings, Grace street, $4,000.

William H. Harlton, dwelling, 664 Brock avenue, $1,000.

R. H. Pill, one pair dwellings, 7 and 9 Gore street, $3,000.

Trustees, St. Peter's Church, dwelling Carlton street, $5,000.

W. Robinson, one pair dwellings Ossington avenue, $6,000.

George T. Lea, two pair dwellings, Wright avenue, $9,600.

Jacob Singer, dwelling, Bernard and Kendal avenues, $5,000.

H. G. Thayer, two pair dwellings, St. Clarens avenue, $5,000.

John R. Nesbitt, two pair dwellings, Dovercourt road, $6,400.

James J. Walsh, two pair dwellings, Nanton crescent, $16,000.

Mrs. Jean Grafton, one pair dwellings, Gore Vale avenue, $3,250.

James Brown, one pair dwellings, Armstrong avenue, $2,500.

Robert Orr, one pair dwellings, 180 and 182 Morse street, $2,800.

Crocker & Le Drew, one pair dwellings, Beatrice street, $5,500.

Dominion Paper Co., addition to premises 469 King street west.

A. B. Ormsby, Limited, stable, 146 and 148 George street, $1,000.

J. R. Marshall, two pair dwellings, 380 to 388 Givens street, 7,300.

R. Saunders, two pair dwellings, 340 to 348 Concord avenue, $7,500.

A. Pepler, residence, corner Bernard avenue and Bedford road, $9,500.

James J. Walsh, two pair dwellings, 135 to 141 Walmer road, $16,000.

Mrs. J. S. Moore, one pair dwellings, 61 and 63 Augusta avenue, $4,000.

Edwin R. and Henry Reynolds, residence, 103 Pembroke street, $2,800.

Mrs. N. Wallace, one pair dwellings, 97 and 97½ Wickson avenue, $3,000.

Bank of Nova Scotia, building corner of Dundas street and Brock avenue.

L. C. Sheppard, two pair dwellings, Collier street aad Park road, $8,000.

F. W. Whimbey, store and dwelling, corner of Gladstone and Peel avenues.

William McNab, one pair dwellings, Barton and Manning avenues, $3,400.

W. Galbraith, two pair and one detached dwellings, Gore street, $6,000.

Vokes Hardware Co., machine shop, corner of Esplanade and Jarvis street.

Mason & Risch Piano Co., addition to factory, 642 King street west, $4,500.

R. A. Graydon, one pair dwellings, 186 and 188 St. George street, $8,000.

Edwin R. and Henry J. Reynolds, residence, 101 Pembroke street, $2,800.

Thos. Vallentyne, one pair dwellings, 235 and 237 St. Clarens avenue, $5,000.

Mrs. John Bertram, residence, corner of Spadina avenue and Bloor street, $9,000.

M. S. Kellow and Thomas Holmes, one pair dwellings, Bathurst street, $4,500.

John Russell, one pair and three attached dwellings, 26 to 34 Logan avenue, $7,500.

York County Loan and Savings Co., three stores, corner Roncesvalles and Fermanangh avenues, $8,000.

Fairbanks-Morse Canadian Mfg. Co., factory, near Northern Railway tracks, on south side Bloor street, $40,000.

TORONTO JUNCTION PERMITS.

Robt. Vogan, store, Dundas street, $1,500.

G. W. Wark, house, Pacific avenue, $2,000.

D. Kaiser, house, Clendenan avenue, $2,000.

Wm. Reney, dwelling, Western avenue, $2,000.

B. G. Byran, house, Quebec avenue, $2,500.

G. H. Large, house, Pacific avenue, $2,500.

John Shultz, dwelling, Clendenan avenue, $1,700.

C. J. Stoddart, house, High Park avenue, $3,500.

J. A. Howson, dwelling, Clendenan avenue, $3,000.

Isaac Lemon, blockhouse, Humberside avenue, $1,600.

John Drummer, three pairs houses Dundas street, $3,300.

J. K. Chishold, two dwellings, Annette street, $2,500 each.

CHANGE IN MANAGEMENT.

Owing to poor health on the part of Mr. Fleming, principal of W. A. Fleming & Co., representatives of F. Reddaway & Co., Manchester, England, Mr. Fleming has resigned from his position as representative, the company has disbanded, and an office has been opened at 325 Craig street west by Mr. Reddaway. F. Reddaway & Co., as manufacturers, are known throughout the British Isles for their famous line of camels' hair belts which are guaranteed to be pure. They also handle a line of hose, which is beginning to be patronized quite freely.

"THE EMLYN" SAW BENCH

Made in 6 sizes. Best value obtainable. Specially designed for export With or without "Emlyn" Patent Guard. Sole maker—

CHARLES D. PHILLIPS,

Cables— "Machinery," Newport.
Emlyn Engineering Works
NEWPORT, MON., ENGLAND

The Hanover Portland Cement Co., Limited

HANOVER, ONTARIO

Manufacturers of the celebrated **"Saugeen Brand"** OF PORTLAND CEMENT.

Prices on application.

USE

"HERCULES" BRAND PORTLAND CEMENT

Manufactured by

THE GREY & BRUCE PORTLAND CEMENT CO.

OWEN SOUND

J. McLAUCHLAN, President.

Don't Forget the Name...

NEWMAN'S INVINCIBLE FLOOR SPRINGS

Strong, Quick, Reliable, Effective.

Will close a door against any pressure of wind. Far ahead of ordinary door springs, pneumatic or otherwise. Ask your wholesaler.

W. NEWMAN & SONS, Birmingham.

WORK AND PRICES RIGHT

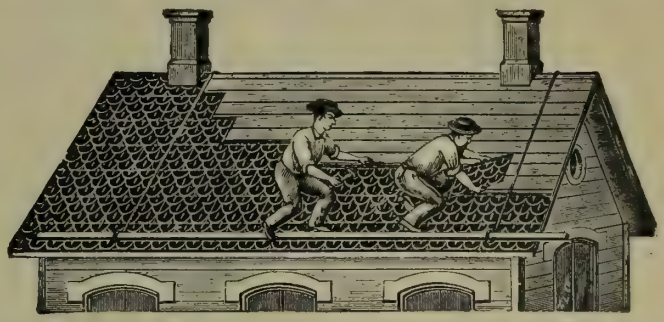
GALVANIZING

ONT WIND ENGINE & PUMP CO. LIMITED.

TORONTO, ONT.

PEDLAR'S STEEL SIDING AND SHINGLES

At $2.00 and $2.55 per 100 Square Feet.



Painted red on both sides. Most durable and economical covering for ***Roofing or Siding for Residences, Houses, Barns, Elevators, Stores, Churches, Poultry Houses, Cribs, etc.*** Easier to lay and will last longer than any other covering. Cheaper than wood shingles or slate. No experience necessary. A hammer and snips are the only tools required. It is semi-hardened, high grade steel. ***Brick or Stone Siding at $2.00 per 100 Square Feet. Pedlar's Patent Steel Shingles at $2.55 per 100 Square Feet.*** Also ***Corrugated Iron, Painted or Galvanized,*** in sheets 96 inches long. ***Beaded and Embossed Ceilings. V Crimped Roofing.*** 2,000 designs of Roofing, Siding and Ceilings in all grades. Thousands of buildings throughout the Dominion covered with our Sheet Metal Goods, making them

Fire, Water and Lightning Proof.

Send in your order for as many squares (10 x 10 feet) as you require to cover your new or old building. The very best roofing for this climate. We can supply ***Eave Trough, all sizes, Corrugated or Plain Round, Conductor Pipes, Shoes, Elbows, Spikes, Tubes.***

All goods shipped day after order is received. We are the largest concern of the kind under the British flag. Established 1861. Capital invested $150,000.00.

THE PEDLAR PEOPLE, OSHAWA, ONTARIO, CANADA.

MONTREAL, QUE.	OTTAWA	TORONTO	CALGARY, ALTA.	VANCOUVER, B.C.
767 Craig St.	423 Sussex St.	50 Yonge St.	201 7th Ave. E.	615 Pender St.

WRITE YOUR NEAREST OFFICE.

Get Light and Then

WITHOUT LIGHT—NOTHING; WITH LIGHT—EVERYTHING.
POOR MEANS OF GETTING IT; GOOD MEANS.

MAXIMUM LIGHT GLASS

offers the best means; affords the most systematic, inexpensive, thorough, satisfying, daylight-creating medium extant. A trade can be built up handling MAXIMUM LIGHT GLASS. Think of the buildings near YOU! Think of the opportunities! We would like to have you write us and get sample.

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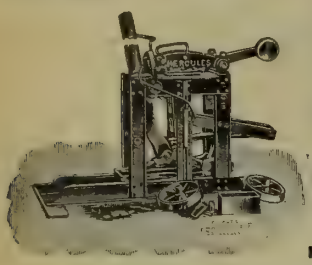
THE HOBBS MANUFACTURING CO., Limited, LONDON, ONT.

Class Importers and Manufacturers.

STREET PAVING and SIDEWALKS a SPECIALTY

SILICA BARYTIC STONE CO.
OF ONTARIO Limited
Head Office:
Ingersoll, Ontario.
Walter Mills, General Manage
Ask for quotations for Septic Tanks.
Water Proof Floors for Malt Houses, Breweries, Slaughter Houses Cheese Factories, Cellar, Stable Floors, etc.

Will Hold Up a Shelf!
That's what a shelf bracket is for.
For this purpose there can be NOTHING BETTER, NOTHING CHEAPER than the BRADLEY STEEL BRACKET. It is well Japanned, Strong and Light. The saving in freight is a good profit, aside from the lower price at which the goods are sold. Order direct or through your jobber.
ATLAS MFG. CO.,
New Haven, Conn., U.S.A

Bricks! Bricks! Bricks!

If you know of anyone intending to make bricks, induce him to use one of our
Hercules Handpower Press
IT WILL PAY YOU
No previous experience needed.
BOSSON BROS., Engineers
P. O. Box 198 BRUSSELS (Belgium)
Cable Address "FORWARD BRUSSELS."
Indents through European merchants.

...FULL STOCK...
Salt Glazed Vitrified
SEWER PIPE
Double Strength Culvert Pipe a Specialty.
THE CANADIAN SEWER PIPE CO.
HAMILTON, ONT. TORONTO, ONT.
ST. JOHNS, QUE.

$2 FOR THIS SMALL SUM THE $2
MANUFACTURER and SUPPLY MERCHANT
may keep posted on new openings for trade.
The CANADIAN CONTRACT RECORD
reports weekly all projected building and other construction works throughout Canada as well as new business enterprises.
Send your name and address with $2 for a year's subscription to
Canadian Contract Record
Toronto, Montreal, Winnipeg, and Vancouver
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INDUSTRIAL GOSSIP

HARDWARE AND METAL would be pleased to receive from any authoritative source industrial news of any sort, the formation or incorporation of companies, establishment or enlargement of mills, factories, foundries or other works, railway or mining news. All correspondence will be treated as confidential when desired.

NIAGARA FALLS has secured the new Canadian factory of the International Acheson Graphite Co. The establishment of the factory will protect the company's Canadian patents and allow Canadian industries using graphite to secure their supplies easier. The furnace in which artificial graphite is made is built up loosely of bricks. It is but a few feet wide, and about thirty feet long. The raw material is placed in this furnace, and then 1,000 electrical horse-power is sent through the furnace for twenty-four hours, the temperature being kept very high. When the furnace is opened the charge is found largely converted into graphite. Mr. Acheson is the discoverer of the process by which carborundum is made, and it was while operating the carborundum furnaces that he found that when the furnace was overheated the crystals next to the core, where the temperature was highest, were converted into graphite. This fact suggested to him the manufacture of graphite for commercial purposes. The same style of furnace is used in graphitizing carbon rods and other articles made of carbon, the conductivity of which has been found to be three times that of ordinary carbons, and for which there is a large demand in England, Germany, the United States and other countries where electrolytic processes are in operation. Artifical graphite is also used in the manufacture of a very high-grade of paint for covering iron and steel work, as it contains no sulphur nor acids that affect the life of the iron.

The St. John, N.B., Foundry Co. are to double the capacity of their stove foundry.

A company is being organized at Amherst, N.S., to establish a carriage factory. Stock amounting to $50,000 has been subscribed.

W. O. and O. C. Hammant, Hamilton, have purchased a site for a factory to manufacture steel dump cars and cars for mining purposes.

A large brass and iron pipe foundry to employ 100 men will probably be established at Fort William. Negotiations are now on for the site.

The Grand River Metal Co., Galt, have amalgamated with the Canada Steel Goods Co., who are erecting a large factory at Hamilton.

The Dyment-Baker Lumber Co., London, has secured the buildings of the London Machine Tool Co., and will continue in business in that city.

An electric power plant is to be established at Chignecto, about six miles from Amherst, N.S., to supply the factories in the latter town with power.

Two hundred practical plate and sheet iron workers are to be brought to Canada from South Wales to work in the plant which is being established at Morrisburg by the Canadian Tin Plate and Sheet Steel Co.

At a meeting of the directors of the Imperial Steel and Wire Co., Limited, of Collingwood, held recently, it was decided to double the capacity of the plant, bringing it to fifty tons minimum of finished wire products daily.

The Town of Port Arthur, Ont., will build another dam on Current River, Engineer McDougall having reported that such a dam would give the town over double the storage capacity now obtained. The electric plant will also be increased.

Reduction works costing $700,000 are being erected at Frank, Alta., for the reduction of lead, silver-lead and zinc ores. British and Belgian capital is behind the enterprise. An output of 10,000 tons of lead per year is being prepared for.

The Manitoba Iron Works, Limited, of Winnipeg, have been awarded the contract for the two 66-inch boilers, as well as the 250,000-gallon steel water tower for the new Portage la Prairie waterworks, and all the cast iron work for the manhole and valve covers for the sewer system. This company has just installed $5,000 worth of bolt-making machinery in their plant, and are turning out a large quantity of bridge and other heavy structural iron work.

The Ontario Government has accepted the resignation of Mr. N. W. Rowell as the Province's agent on the board of directors of the Consolidated Lake Superior Co., and has recommended Mr. William H. Plummer, merchant, of Sault Ste. Marie, as a director of the company, and designated Mr. W. H. Hearst, of Sault Ste. Marie, as the Government's agent. The position held by Mr. Rowell is thus divided. Mr. Plummer is the brother of Mr. J. H. Plummer of the Dominion Iron and Steel Co.

Contracts for the extension of the Pender Nail Works at St. John, N.B., have been awarded. The addition will be larger than the whole of the present works. The addition will include a new machine room 48x40, a new wire mill 60x100, and a new cleaning house 46x78. The latter will have a new and improved cleaning pit, inclosed with brick and cement walls, and having a concrete floor. The cleaning house will also contain an improved five-alley baker, which will have a number of improvements not found in other mills.

The Eckardt Casket Co. and the Eckardt Silver Plate Co., one of the enterprises burned out in the great fire, announced a few weeks ago that they were about to remove from the city and establish factories outside. At that time it was stated that Brampton would be the lucky town. Since then, however, the firms have reconsidered their decision and will rebuild in Toronto. The announcement of the firms' intention of removing brought them in a host of offers of free sites, tax exemptions, free water and light, and other bonuses from hustling outside towns. Among the towns that negotiated for the new factories were Barrie, Brampton, Galt, Stratford and Trenton.

The building of the Michigan Central

Railway's double tunnel under the Detroit River will provide an immense amount of work for a big foundry plant. The tunnel will cost upwards of ten million dollars, and it is likely that a foundry plant costing half a million dollars would be a profitable investment. As the tunnel is to be constructed from the Windsor end right to the Detroit terminal before anything is disturbed on that side, it is quite possible that the foundry may be located at Windsor to avoid the heavy duties which will have to be paid on the material if imported from the United States. It is definitely announced that work will begin upon the tunnel by October 1. There are many legal preliminaries to be settled first. By the time the tunnel is completed the Michigan Central will have a double track from Chicago to Buffalo.

Companies Incorporated.

New York Oil Co. have been granted the right to do business in Ontario to the extent of $1,000,000. W. A. Brake, of Leamington, has been appointed to be their attorney.

Russell Elevator Co., Limited, Toronto, share capital, $20,000; purpose, to manufacture and deal in elevators. The directors are: J. Russell, A. Russell and C. Q. Parker, all of Toronto.

Crescent Oil and Gas Co., of the State of Arizona, have been granted the right to do business in Canada to the extent of $1,000,000. W. A. Brake, of Leamington, has been appointed to be their attorney.

Macdonald Engineering Co., Limited, of the State of Illinois, U.S.A., have been granted the right to build, construct and equip grain elevators in Ontario. W. H. Adamson, of Toronto, is their attorney.

Model Building-Stone Co., Limited, of Montreal, share capital, $20,000; purpose, to manufacture and sell building and cement stone, etc. The directors are: J. Boddy, A. Valin, D. Loynachan, J. E. Wilder, all of Montreal, and J. M. Reid, of Outremont, Que.

Toronto Construction Co., Limited, of Toronto, share capital, $200,000; purpose, to carry on the business of general contractors. The directors are: G. S. Deeks, and A. B. Cook, of Toronto; W. Winters, of Spokane, in the State of Washington, and H. H. Boomer and T. H. Hinds, of Butte, Ma.

Port Rowan Natural Gas Co., Limited, of Port Rowan, share capital, $40,000; purpose, to drill for, pipe, use and sell natural gas for purpose of light, heat and power. The directors are: C. S. Killmaster, J. L. Buck, F. H. Pearsall, W. O. Franklin, J. Hanson and E. Meek, all of Port Rowan.

Chatham Steam Heating Co., Limited, of Chatham, share capital, $40,000; purpose, to conduct a works for the production of electricity, etc., for purposes of light, heat and power. The directors are: G. W. Kipp and E. Whalen, of Towanda, and J. T. O'Keefe, W. N. Warburton and N. H. Stevens, of Chatham.

Barnett-McQueen Co., Limited, of Winnipeg, share capital, $120,000; purpose, to carry on the business of mechanical and electrical engineers. The directors are: L. C. Barnett, of Superior, Wis.; F. R. McQueen and R. C. Hanna, of Minneapolis, Minn., and W. H. McWilliams and H. Sutherland, of Winnipeg.

Pedlar Talks

"KEEPING EVERLASTINGLY AT IT BRINGS SUCCESS."

No. 9. OSHAWA, ONT. June 17, 1905

MR. HARDWAREMAN,

Contractors have builders on the go. Are these builders using metal lath — **Perfect Metal Lath?** That is just where **you** should be concerned — **your dollars are concerned.** You can invest your money to better advantage in **Perfect Metal Lath** than in any other known salable product.

WHAT ABOUT

We will make you a special offer to become a dealer in this great labor-saving, healthful, life-lasting, non-corrosive lath—**Perfect Metal Lath.** It sells at 10c. per square yard. It calls for about one-third the plaster that ordinary lath calls for, and by our "Accurate-to-the-Second" mesh the key is not only made positive, but the plaster is made to **stick—stick for all time.**

THOSE CONTRACTORS?

There is no other metal lath made so "perfectly" nor selling so cheaply as **Perfect Metal Lath.** Good ground, this, for asking an audience with you, Mr. Hardwareman. **Perfect Laths, Low Prices, Clear Prospects**—where is the dealer who can disparage such an offer? There is a **place vacant** for **you.** It will not **always** be **vacant.** A post card to us will direct you how to act. Write. **Write at once.**

The Pedlar People

of OSHAWA, ONT.

MONTREAL—767 Craig St. OTTAWA—423 Sussex St. TORONTO—50 Yonge St.
VANCOUVER, B.C.—615 Pender St. SYDNEY, AUSTRALIA—189 Clarence St.
CAPE TOWN, S.A.—141 Longmarket St.

WRITE YOUR NEAREST OFFICE.

NOW IS THE SEASON

IN WHICH

Building Papers Reign Supreme

BUY SOMETHING THAT WILL PLEASE

They say the demand of this season has never been equalled. Is your demand increasing? Do not forget to bait your hook with good bait, so that you may catch the best fish in the water.

ALEX. McARTHUR & CO., Limited, 82 McGill St., MONTREAL

CURRENT MARKET QUOTATIONS.

June 16, 1905.

These prices are for such qualities and quantities as are usually ordered by retail dealers on the usual terms of credit, the lowest figures being for larger quantities and prompt pay. Large cash buyers can frequently make purchases at better prices. The Editor is anxious to be informed at once of any apparent errors in this list, as the desire is to make it perfectly accurate.

METALS.

TIN.

Lamb and Flag and Straits—	
56 and 28-lb. ingots, 100 lb.	$32 00 $33 00

TINPLATES.

Charcoal Plates—Bright.

	Per box.
M.L.S., equal to Bradley—	
I C, usual sizes	$6 50
I X "	8 00
I X X "	9 50
Famous, equal to Bradley—	
I C	6 50
I X	8 00
I X X	9 50
Raven and Vulture Grades—	
I C, usual sizes	4 25
I X "	5 00
I X X "	5 75
I X X X "	6 50
"Dominion Crown Best"—Double Coated, Tissued.	Per box.
I C	5 50
I X	6 50
I X X	7 50
I Allaway's Best"—Standard Quality.	
I C	4 50
I X	5 50
X	6 50

X Coke Plates—Bright.

Bessemer Steel—	
I.C., usual size, 14x20	3 50
I.C., special sizes, base	3 75
20x28	7 50

Charcoal Plates—Terne

Dean or J. G. Grade—	
I.C., 20x28, 112 sheets	7 50
IX., Terne Tin	10 50

Charcoal Tin Boiler Plates.

Cookley Grade—	
X X, 14x56, 50 sheet bxs. / " 14x60, " / " 14x65, "	7 00

Tinned Sheets.

72x30 up to 24 gauge	7 25 7 50
" " 26 "	7 75 8 00

IRON AND STEEL.

	Montreal.	Toronto.
Common bar, per 100 lb	1 80	1 80
Forged iron "	2 05	2 05
Refined " "	2 20	2 05
Horseshoe iron "	2 02½	....
Hoop steel, 1½ to 3 in. base	....	....
Sleigh shoe steel "	1 97½	....
Tire steel	2 07½	....
T. Firth & Sons, tool steel—		
Speedicut	....	0 60
Annealed speedicut	....	0 65
Self-hardening	....	0 36
Best tool steel	....	0 12
Warranted	....	0 09
Best sheet steel	....	0 12
B. K. Morton & Co.—		
"Alpha" high speed	....	0 65
" annealed	....	0 70
"M." Self-hardening	....	0 50
"J" quality	....	0 18
"I" "	....	0 14
"B C" "	....	0 09
Jonas & Colver's tool steel	0 10	0 20
"Novo"	....	0 65
" " annealed	....	0 70
Chas. Leonard	0 08	0 09
Crucible Steel Co.—		
" Rex high speed steel	0 65	0 75
" Self-hardening	0 45	0 50
Crucible Special	....	0 17
" Silver steel	....	0 13
" Black Diamond	0 10	011
Sanderson's Crucible steel	0 08	0 09
" Superior "	0 12	0 13

BABBIT METAL.

Syracuse Smelting Works:	
Aluminum, genuine	0 45
Government, "	0 44
Tough, "	0 40
Hard, "	0 40
Dynamo	0 30
Special	0 25
Maganese	0 18
Car Box	0 17
Extra	0 13
No. 1	0 10
No. 2	0 07
No. 3	0 05½

Large orders subject to discounts.

The Canada Metal Co.:	
Imperial, genuine	0 40
Metallic	0 30
Hercules	0 20
Star	0 15
No. 1	0 12
No. 2	0 10
No. 3	0 06
No. 4	0 05

BLACK SHEETS.

	Montreal.	Toronto
10 gauge	2 30	2 30
12 and 14 gauge	2 25	2 35
17 "	2 20	2 40
22 to 24 gauge	2 05	2 50
26 "	2 10	2 65
28 "	2 15	2 70

COPPER WIRE.

Discount, 50 per cent.

CANADA PLATES.

Ordinary	2 50
All bright	3 75
Galvanized Canada Plates—	
J. C. M. 3 Crowns	
16 x 21 x 60	3 33
18 x 24 x 52	3 33
18 x 24 x 60	3 56

	Ordinary.	Dom. Crown.
18x24x52	4 25	4 35
" 60	4 50	4 60
20x28x80	8 50	8 70
" 94	9 00	9 20

GALVANIZED SHEETS.

	Fleur-de-Lis.	Gordon Crown.
16 to 20 gauge	3 40	....
22 to 24 gauge	3 50	3 50
26 "	3 75	3 75
28 "	4 00	4 15

	Comet Bell.	Queen's Head
16 to 20 gauge	3 40	....
22 to 24 gauge	3 45	3 65
26 "	3 70	3 90
28 "	3 95	4 15

American brands, $3.90 for 10⅛ oz.
Less than case lots 10 to 15c. extra.

CHAIN.

Proof coil, 3-16 in., per 100 lb.	7 00 10 00
" ¼ "	5 60
" 5-16 "	4 45
" ⅜ "	3 85
" 7-16 "	3 70
" ½ "	3 55
" 9-16 "	3 45
" ⅝ "	3 35
" ¾ "	3 25
Halter, kennel and post chains, 40 to 5 per cent.	40 and
Cow ties	40 p.c.
Tie out chains	65 p.c.
Stall fixtures	35 p.c.
Trace chain	45 p.c.
Jack chain, iron, single and double, discount 35 p.c.	[count 40 p.c.
Jack chain, brass, single and double, dis-	

COPPER.

	Ingot.	Per 100 lb.
Casting, car lots	16 25	16 50

Bars.

Cut lengths, round, ⅛ to ⅞ in	21 00 23 00
" round and square,	
Cut 1 to 2 inches	21 00 23 00

Sheet.

Plain, 16 oz., 14x48 and 14x60	21 00
Plain, 14 oz.	22 00
Tinned copper sheet	24 00
Planished	32 00

Braziers' (in sheets).

4x6 ft., 25 to 30 lb. each, per lb.	0 22
" 35 to 45 " "	0 21
" 50-lb. and above "	0 20

BOILER AND T.K. PITTS.

Plain tinned / Spun } 41½ per cent. off list.

BRASS.

Rod and Sheet, 14 to 30 gauge, 10 per cent.	
Sheets, hard-rolled, 2x4	0 23
Tubing, base, per lb.	0 23½

ZINC SPELTER.

Foreign, per 100 lb	7 00 ....
Domestic " "	6 75 7 00

ZINC SHEET.

5-cwt. casks	7 00
Part casks	7 25

LEAD.

Imported Pig, per 100 lb	3 50 3 75
Bar, " "	4 80
Sheets, 2½ lb. sq. ft., by roll	0 06½
Sheets, 3 to 6 lb. "	0 06

NOTE.—Cut sheets ½c. per lb., extra. Pipe, by the roll, usual weights per yard, lists at 7c. per lb. and 35 p.c dis. f.o.b. Toronto.

NOTE.—Cut lengths, net price, waste pipe 8-ft lengths, lists at 8c.

ANTIMONY.

Cookson's per lb.	0 09½

SHOT.

Common, $6.50 per 100 lb.; chilled, $7.00 per 100 lb.; buck, seal and ball, $7.50. Discount, 15 p.c. Prices are f.o.b. Toronto, Hamilton, Montreal, St. John and Halifax. Terms, 2 p.c. for cash in thirty days.

PLUMBING GOODS.

BATH TUBS.

Zinc	6 00
Copper, discount 20 per cent. off revised list.	

BATHS.

Standard Ideal Enameled.

	Special
Plate E I, Fittings extra 1st quality	
4 and 4½ ft. 13 in. rolled rim	$18 00 16 00
5 feet "	19 00 17 00
5½ " "	20 50 18 50
6 " "	23 25 21 25
Plate E II	
4½ feet 2½ in. "	16 75 14 75
5 " 2½ "	17 50 15 50
5½ " 2½ "	19 00 17 00
Plate 123 E, lavatories 1st quality	8 90
" 123 E, " 2nd "	7 50
" 127 E, " 1st "	5 70
" 127 E, " 2nd "	4 80
" 128 E, " 1st "	5 60
" 128 E, " 2nd "	4 70
" 129 E, " 1st "	5 40
" 129 E, " 2nd "	4 50
Sinks 18 x 30 in flat rim, A quality	2 45
" " " " " B "	00

IRON PIPE.

Black pipe—	Per 100 feet.
⅛ inch	2 75
¼ "	2 04
⅜ "	2 06
½ "	2 30
¾ "	2 88
1 "	4 12
1¼ "	5 62
1½ "	6 75
2 "	9 00

Galvanized pipe—	
¼ inch	2 86
⅜ "	2 89
½ "	3 14
¾ "	4 02
1 "	5 77
1¼ "	7 88
1½ "	9 45
2 "	12 60

Malleable Fittings—Canadian discount 35 per cent. American discount 20 to 25 per cent.

Cast Iron Fittings—Standard bushings 50 and 10 and 10 per cent.; headers, 60; flanged unions and lipped, 60 and 5; malleable bushings, 65; nipples, up to 6 in., 75.

PLUMBERS' BRASS GOODS.

Standard Compression work, dis. 60 p.c.
Cushion work, discount 50 per cent.
Fuller work, discount 65 per cent.
6 dozen lots and over of the above, extra discount 10 per cent.
Lever handle Stops and Waste, discount 55 per cent. With in lots of 2 dozen and over, an extra discount of 10 per cent.
J.M.T. Globe, Angle and Check Valves, discount 55 per cent.
Standard Globe, Angle and Check Valves, discount 65 per cent.
Kerr's special standard globes and angles, discount 55 per cent.
Kerr's Jenkin disc, copper-alloy disc and heavy standard valves, discount 55 percent.
Kerr's standard brass checks, discount 55 p.c.
Kerr's standard brass disc steam radiator valves, discount 65 per cent.
Kerr's Jenkin disc, copper-alloy disc radiator valves, discount 65 per cent.
Kerr's quick-opening hot-water radiator valves, discount 65 per cent.
Weber's (Kerr) patent straightway gate valves, brass, discount 50 per cent.
Weber's (Kerr) patent straightway gate valves, I.B.B.M., discount 60 and 10 per cent.
J. M. T. Radiator Valves discount 55 per cent.
Standard Radiator Valves, discount 65 per cent.
Patent Quick-Opening Valves, discount 7 and 10 per cent.

No. 1 compression bath cock	net 1 75
No. 4 " "	" 1 90
No .7 Fuller's	" 2 20
No. 4½, "	" 2 35

Patent Compression Cushion, basin cock, hot and cold, per doz., $31; 5 and 10 per cent. discount.
Patent Compression Cushion, bath cock, No. 2208 2 25
Square head brass cocks, discount 55 per cent
" " iron " 60 "
Thompson Smoke-test Machine $25.00

RANGE BOILERS

Copper, 30 gallon	" 22 00
" 35 "	" 24 00
" 40 "	" 28 00

Discount off copper boilers 15 per cent.

GALVANIZED IRON RANGE BOILERS.

Capacity. Gals.	Standard.	Extra heavy
12	4.50	6.50
18	4.75	6.75
24	4.75	6.75
30	5.00	7.50
35	6.00	8.50
40	7.00	9.50
52	11.00	14.00
66	18.00	20.00
82	21.00	24.00
100	29.00	34.00
120	34.00	40.00
144	47.00	55.00

CLAUSS BRAND HOUSEHOLD SHEARS

FULLY WARRANTED

The best Shear on the market for general house use, being an exceptionally fine cutting and wearing Shear.

Manufactured by our secret process.



ASK FOR DISCOUNTS

The Clauss Shear CO., - Toronto, Ont.

SOIL PIPE AND FITTINGS.

Med. and Extra heavy pipe and fittings, dis. 60 per cent.
7 and 8-in. pipe, discount 40 and 5 per cent.

SOLDER.

	Per lb
Bar, half-and-half, guaranteed	0 17½
Wiping	0 15½
Refined	0 16¼

PAINTS AND OILS.

COLORS IN OIL.

1-lb. tins, pure.

Venetian red, per lb.	0 08
Chrome yellow	0 15
Golden ochre	0 08
French "	0 06
Marine black	0 04
Chrome green	0 10
French permanent green	0 13
Signwriters' black	0 15

WHITE LEAD.

	Per 100 lb.
Pure	4 60 4 75
No. 1	4 35 4 50
No. 2	4 30
No. 3	3 37½
No. 4	3 35
Munro's Select Flake White	4 75
Elephant and Decorators' Pure	4 75
Tiger brand, pure	5 00
Decorators' Special for exterior use	4 25
Monarch	5 00
Decorator's Pure	4 75
Essex Genuine	4 25
Sterling Pure	5 00
Island City Pure	5 00
Ramsay's Pure Lead	4 75 5 00
Ramsay's Exterior	4 50 4 75

RED LEAD.

Genuine, 560 lb. casks, per cwt	$4 50
Genuine, 100 lb. kegs, "	4 75
No. 1, 560 lb. casks, per cwt	4 00 4 25
No. 1, 100 lb. kegs, per cwt	4 75

WHITE ZINC.

Extra Red Seal	0 06 0 08
French V. M.	0 06½ 0 07
Lehigh	0 06 0 06½
Pure	0 07½
No. 1	0 06½
No. 2	0 05½

DRY WHITE LEAD.

Pure, casks	4 50
Pure, kegs	4 75
No. 1, casks	4 00
No. 1, kegs	4 25

PREPARED PAINTS.

In ¼, ½ and 1-gallon tins.

Pure, per gallon	1 20
Second qualities, per gallon	1 00
Barn (in bbls.)	0 60 0 90
The Sherwin-Williams paints	1 35
Canada Paint Co.'s pure	1 25
Toronto Lead & Color Co's pure	1 25
Sanderson Pearcy's pure	1 20
Standard Co.'s "New Era"	1 30
Francis-Frost Co.'s "Ark" B'd	1 25
" British Navy deck	1 50
Henderson & Potts's "Anchor"	1 35
Ramsay's paints, Pure, per gal.	1 20
" Thistle, "	1 00
" Outside, bbls	0 55 0 65
Island City House Paint	1 25
" Floor "	1 25
Sterling House Paint	1 20
" Floor "	1 10
National	1 05

PARIS GREEN.

Petroleum, barrels, per lb.	0 13½
Arsenic, kegs	0 13½
50 and 100-lb. drums	0 14
25-lb. drums	0 14½
1-lb. paper boxes	0 15
½-lb. paper boxes	0 17

Terms—2 per cent. off 30 days, or 90 days

PUTTY.

Bulk in bbls.	1 50
Bulk in less quantity	1 80
Bladders in bbls.	1 65 1 75
Bladders in kegs, boxes or loose	1 90
25-lb. tins	1 80
12½ lb. tins	2 05
Bladders in bulk or tins less than 100 lb.	1 85

VARNISHES.

	In 5-gal. lots. Per gal.	Net.
Carriage, No. 1	1 50	1 60
Pale durable body	4 10	4 25
" rubbing	2 85	3 20
Gold size, japan	1 50	1 60
No. 1 brown japan	0 85	0 90
Elastic oak		1 50
Furniture, extra	1 10	1 25
" No. 1	0 90	1 00
Hard oil finish	1 35	1 50
Light oil finish	1 60	1 70
Damar	1 75	2 00
Shellac, white	2 40	2 50
" orange	2 30	2 40
Turpentine, brown japan	1 10	1 20
" black japan	1 10	1 20
" " No. 1	0 85	0 90
Elastilite varnish, 1 gal. can, each		2 00
Granitine floor finish, per gal		2 75
Maple Leaf coach enamels; size 1, size 2, 70c.; size 3, 40c. each.		$1.20
Sherwin-Williams' kopal varnish, case, from to 1 gal., $2.50.		assorted

GLUE.

Common	0 08 0 08½
French medal	0 10 0 14
White, extra	0 18 0 22
Gelatine	
Strip	0 18 0 20
Coopers	0 19 0 20
Huttner	
Ground	0 12 0 16
Cologne, genuine	

HARDWARE.

AMMUNITION.

Cartridges.

B. B. Caps Dominion, 50 and 5 and 25 per cent. American $2.00 per 1000.
C. B. Caps American, $2.60 per 1000.
Rim Fire Pistol, discount 30 p.c., American.
Rim Fire Cartridges, Dominion, 50 and 5 p.c.
Central Fire, Military and Sporting, American, add 20 per cent. to list. B.B. Caps, discount 40 per cent., American.
Central Fire Pistol and Rifle, list net Amer.
Central Fire Cartridges, pistol sizes, Dominion, 30 per cent.
Central Fire Cartridges, Sporting and Military, Dominion, 15 per cent. American 10 per cent. advance on list.
Loaded and empty Shells, "Trap" and "Dominion" grades, 25 per cent. discount. American 20 per cent. discount. Rival and Nitro, 10 per cent. advance on list.
Brass Shot Shells, 55 per cent.
Primers, Dom., 30 per cent.: American $1.75

Wads. per lb.

Best thick brown or grey felt wads, in ½-lb. bags	$0 70
Best thick white card wads, in boxes of 500 each, 12 and smaller gauges	0 29
Best thick white card wads, in boxes of 500 each, 10 gauge	0 35
Thin card wads, in boxes of 1,000 each, 12 and smaller gauges	0 20
Thin card wads, in boxes of 1,000 each, 10 gauge	0 25

Chemically prepared black edge grey cloth wads, in boxes of 250 each— Per M.

11 and smaller gauge	0 60
9 and 10 gauges	0 70
7 and 8 "	0 90
5 and 6 "	1 10

Superior chemically prepared pink edge, best white cloth wads, in boxes of 250 each—

11 and smaller gauge	1 15
9 and 10 gauges	1 40
7 and 8 "	1 65
5 and 6 "	1 90

ADZES.

Discount 22½ per cent.

ANVILS.

Wright's, 80-lb. and over	0 10¾
Hay Budden, 80-lb. and over	0 09½
Brook's, 80-lb. and over	0 11¼

APPLE PARERS.

Woodyatt Hudson, per doz., net	4 50

AUGERS.

Gilmour's, discount 60 per cent. off list.

AXES.

Chopping Axes		
Single bit, per doz.	7 00	10 00
Double bit, "	10 00	18 00
Bench Axes, 40 per cent.		
Broad Axes, 25 per cent.		
Hunters' Axes	5 50	6 00
Boys' Axes	6 25	7 00
Splitting Axes	7 00	12 00
Handled Axes		10 00

AMERICAN AXE AND TOOL CO.

Red Ridge, boys', handled	75
" hunters	5 25
Underhill American Bench Axes, 40 p.c.	

AXLE GREASE.

Ordinary, per gross	6 00	7 00
Best quality	10 00	12 00

BELLS.

Hand.

Brass, 60 per cent.
Nickel, 55 per cent.

Cow.

American make, discount 63⅔ per cent.
Canadian, discount 45 and 50 per cent.

Door.

Gongs, Sargant's 5 50 8 00
" Peterboro', discount 50 and 10 per cent. off new list.

Farm.

American, each 1 35 3 00

House.

American, per lb. 0 35 0 40

BELTING.

Extra, 60 per cent.
Standard, 60 and 10 per cent.
No. 1, not wider than 6 in., 60, 10 and 10 per cent.
Agricultural, not wider than 4 in., 75 per cent.

BITS.

Auger.

Gilmour's, discount 60 per cent.
Rockford, discount 50 and 10 per cent.
Jennings' Gen., net list.

Car.

Gilmour's, 47½ per cent.

Expansive.

Clark's, 40 per cent.

Gimlet.

Clark's, per doz	0 65	0 90
Diamond, Shell, per doz.	1 00	1 50
Nail and Spike, per gross	2 25	5 20

BLIND AND BED STAPLES.

All sizes, per lb.	0 07½ 0 12

BOLTS AND NUTS

	Per cent.
Carriage Bolts, common ($1 list	
" " ⅜ and smaller	60 and 10
" " 7-16 and up	55 and 5
" " full sq. ($2.40 list)	60
" " Norway Iron ($3 list)	60
Machine Bolts, all sizes, ⅜ and less	55
Machine Bolts, 7-16 and up	55 and 5
Plough Bolts	55 and 5
Blank Bolts	55 and 5
Bolt Ends	55 and 5
Sleigh Shoe Bolts	70
Coach Screws, cone point	70 and 5
Nuts, square, all sizes, 4c. per lb. off.	
Nuts, hexagon, all sizes, 4½c. per lb. off.	
Stove Rods per lb., 5½ to 6c.	

BOOT CALKS.

Small and medium, ball per M.	4 25
Small heel "	4 50

BRIGHT WIRE GOODS

Discount 62½ per cent.

BUTCHERS' CLEAVERS.

German per doz.	6 00	9 00
American "	12 00	18 00

BUILDING PAPER, ETC

Tarred Felt, per 100 lb.	1 85
Ready roofing, 2-ply, not under 45 lb. per roll	0 90
Ready roofing, 3-ply, not under 65 lb., per roll	1 15
Carpet Felt per ton	45 00
Heavy Straw Sheathing per ton	35 00
Dry Sheathing per roll, 400 sq. ft.	0 40
Tar " 400 "	0 50
Dry Fibre " 400 "	0 40
Tarred Fibre " 400 "	0 50
O. K. & I. X. L. " 400 "	0 70
Resin-sized " 400 "	0 45
Oiled Sheathing " 600 "	1 00
Oiled " 400 "	0 70
Root Coating, in barrels per gal.	0 17
Roof small packages "	0 25
Refined Tar per barrel	5 00
Coal Tar "	4 00
Coal Tar, less than barrels per gal.	0 15
Roofing Pitch per 100 lb.	0 90
Slater's felt per roll	0 60

BULL RINGS.

Copper, $1.30 for 2½-inch, and $1.70

BUTTS.

Wrought Brass, net revised list.

Cast Iron.

Loose Pin, discount 60 per cent

Wrought Steel.

Fast Joint, discount 70 to 70 and 5 per cent
Loose Pin, discount 70 to 70 and 5 per cent.

CARPET STRETCHERS.

American per doz.	1 00	1 50
Bullard's "		6 50

CASTORS.

Bed, new list, discount 55 to 57½ per cent.
Plate, discount 52½ to 57½ per cent.

CATTLE LEADERS.

Nos. 32 and 33 per gross	7 50 8 50

CHALK.

Carpenters' Colored, per gross	0 45	0 75
White lump per cwt.	0 60	0 65
Red	0 05	0 06
Crayon per gross	0 14	0 18

CHISELS.

Socket, Framing and Firmer.

Broad's, discount 70 per cent.
Warnock's, discount 70 per cent.
P. S. & W. Extra, discount 60 and 10 per cent.

CLOTHES REELS.

Davis Clothes Reels, dis. 40 per cent

PLANE IRONS.

English per doz.	2 00	5 00

PLIERS AND NIPPERS.

Button's genuine, per doz. pairs, discount 37½ to 40 per cent.

Button's imitation per doz.	5 00	9 00
man "	0 60	0 60

PRESSED SPIKES.

Discount 20 per cent.

PULLEYS.

Hothouse per doz.	0 55	1 00
Axle "	0 22	0 33
Screw "	0 22	1 00
Awning "	0 35	2 50

PUMPS.

Canadian cistern	1 8	6
Canadian pitcher spout	1 4	2

EXPANSION.

Thirty years ago Mr. J. W. Paterson, the originator of this Company, commenced business in Montreal with a daily output of **TWO TONS.** To-day we operate three large Modern Factories and an equal number of Paper Mills, with a combined daily output of fully **SEVENTY-FIVE TONS.**

Promptness, Courtesy and the Superior Quality of our Building Papers,

Roofing Felts and Wire-Edged Ready-Roofing have made us successful.

The Paterson Mfg. Co., Limited

Toronto and Montreal.

CONDUCTOR PIPE.

Plain or Corrugated.

2-inch	per 100 feet	3 00
3 "	" "	4 00
4 "	" "	5 25
5 "	" "	6 75
6 "	" "	9 00

CRADLES, GRAIN.

Canadian, discount 20 to 25 per cent.

CROSSCUT SAW HANDLES.

S. & D., No. 3	per pair	0 15
S. & D., " 5	"	0 22½
S. & D., " 6	"	0 15
Boynton pattern	"	0 20

DOOR SPRINGS.

Torrey's Rod	per doz.	1 75
Coil, 9 to 11 in	"	0 95 1 65
English	"	2 00 4 00

DRAW KNIVES.

Coach and Wagon, discount 70 per cent. new list.
Carpenters' discount 70 per cent.

DRILLS.

Hand and Breast.

Millar's Falls, per doz., net list.

DRILL BITS.

Morse, discount 37½ to 40 per cent.
Standard, discount 50 and 5 to 55 per cent.

FAUCETS.

Common, cork-lined, discount 35 per cent.

EAVETROUGHS.

10-inch	per 100 ft.	10 00

ELBOWS (stovepipe.)

5 and 6-inch, common	per doz.	1 20
7-inch	"	1 35

Polished, 15c. per dozen extra.

ESCUTCHEONS.

Discount 50 and 10 per cent., new list

ESCUTCHEON PINS.

Iron, discount 40 per cent.

FACTORY MILK CANS.

Discount off revised list, 40 per cent.

FILES AND RASPS.

Great Western	70 and 10 per cent.
Arcade	70 " 10 "
Kearney & Foot	70 " 10 "
Disston's	70 " 10 "
American	70 " 10 "
J. Barton Smith	70 " 10 "
McClellan	70 " 10 "
Eagle	70 " 10 "
Nicholson, 60 and 10 to 60, 10 and 5	"
Royal	80 "
Globe	70 to 75 "

Black Diamond, 60 and 10 to 60, 10 and 5 per cent.
Jowitt's, English list, 25 to 27½ per cent.
Nicholson File Co.'s "Simplicity" file handle, per gross 85c. to $1.50

GLASS.

Window. Box Price.

Size United Inches.	Star Per 50 ft.	Star Per 100 ft.	D. Diamond Per 50 ft.	D. Diamond Per 100 ft.
Under 26	....	3 80	....	5 06
26 to 40	....	4 00	....	5 44
41 to 50	....	4 50	....	6 56
51 to 60	....	4 75	....	7 50
61 to 70	....	5 00	....	8 62
80	....	5 30	....	9 38
85	....	....	....	10 75
86 to 90	....	....	....	12 30
91 to 95	....	....	....	15 00
96 to 100	....	....	....	18 00
96 to 100	....	....	....	18 00

GAUGES.

Marking, Mortise, Etc.

Stanley's, discount 50 to 55 per cent.

Wire Gauges.

Winn's, Nos. 26 to 33	each	1 65 2 40

GILLETT'S POWDERED LYE.

1-case, $3.70; 3-case, $3.60; 5-case and over, $3.50.

HALTERS.

Rope, ⅜-inch	per gross	9 00
Rope, ½ "	"	12 00
Rope, ⅝ to ¾-inch	"	14 00
Leather, 1-inch	per doz.	4 00
Leather, 1¼ "	"	5 20
Web	"	2 45

HAMMERS.

Nail.

Maydole's, discount 5 to 10 per cent. Canadian discount 25 to 27½ per cent.

Tack.

Magnetic	per doz.	1 10 1 20

Sledge.

Canadian	per lb.	0 07 0 08½

Ball Pean.

English and Canadian, per lb.		22 0 25

HANDLES.

Axe, 2nd growth, per doz. net		3 00 4 00
Store door	per doz.	1 00 1 50

Fork.

C. & B., discount 40 per cent., revised list.

Hoe.

C. & B., discount 40 per cent., revised list.

Saw.

American	per doz	1 00 1 25

Plane.

American	per gross	3 15 3 75

Hammer and Hatchet.

Canadian, discount 40 per cent.

HANGERS.

	doz.	pairs.
Steel barn door	8 00	10 00
Stearns, 4-inch	....	4 50
" 5-inch	....	6 00
Zenith	....	9 00
Lane's covered—		
No. 11, 5-foot run	....	8 40
No. 11½, 10-foot run	....	10 80
No. 12, 10-foot run	....	12 60
No. 14, 15-foot run	....	21 00
Steel, covered	4 00	11 00
" track, 1 x 3-16 in(100 ft)	....	3 75
" " 1¼ x 3-16 in(100 ft)	....	4 75

HARVEST TOOLS.

Discount 60 per cent.
S. & D. lawn rakes, Dunn's, 40 off.
" sidewalk and stable scrapers, 40 off.
" Maple Leaf and Premiums saw sets, 40 off.
" saw swages, 40 off.

HATCHETS.

Canadian, discount 40 to 42½ per cent.

Shingle, Red Ridge 1, per doz		4 40
" " 2, "		4 85
Barrel, Underhill		5 00

HAT ENAMEL.

Henderson & Potts' 'Anchor Brand'

HINGES.

Blind, Parker's, discount 60 per cent.

Heavy T and strap, 4-in., per lb.		0 06½
" " 5-in., "		0 06½
" " 6-in., "		0 06
" " 8-in., "		0 05½
" " 10-in., "		0 05½

Light T and strap, discount 65 and 5 per cent
Screw hook and hinge—

6 to 10 in	per 100 lb.	4 50
12 in. up	"	3 25

Spring, No. 20, per gro. pairs 10 80
Spring, Woodyatt pattern, per gro.. No. 5, $17.50; No. 10, $18; No. 20, $10.80; No. 120, $20; No. 51, $10; No. 50, $27.50.

HOES.

Garden, Mortar, etc., discount 60 per cent.

Planter	per doz.	4 00 4 50

HOLLOW WARE

Tinned c 35 per cent.

HOOKS.

Cast Iron.

Bird cage	per doz.	0 50 1 10
Clothes line, No. 61	"	0 00 0 70
Harness	"	0 60 12 00
Hat and coat	per gro.	1 10 10 00
Chandelier	per doz.	0 50 1 00

Wrought Iron.

Wrought hooks and staples Canadian discount 60 per cent.

Wire.

Hat and coat, discount 60 per cent.

Belt	per 1,000	0 60

Screw, bright, discount 62½ per cent.

HORSE NAILS.

"P.B." Brand, 55 to 60 per cent.
'C' brand, 40, 10 and 7½ per cent. off list { Oval head
M.R.M. Co. brand, 55 per cent.
"Monarch," 50 and 7½ per cent.
'Peerless" 50 per cent. dis.

HORSESHOES.

F.O.B. Montreal

"P.B." brand, new pattern, base	$3 50
M.R.M.'Co. brand, base	3 65

Add 15c. Toronto, Hamilton, Guelph.

JAPANNED WARE.

50 per cent.

PICKS.

Star	per doz.	3 00 3 25

KETTLES.

Brass spun 7½ per cent. discount off new list.

Copper	per lb.	0 30 0 50

American, 60 and 10 to 65 and 5 per cent.

KEYS.

Lock, Canadian dis. 40 to 40 and 10 per cent.
Cabinet trunk and padlock
American per gross 0 60

KNOBS.

Door, japanned and N.P., per doz		1 50 2 50
Bronze, Berlin	per doz.	2 75 3 25
Bronze, Genuine	"	6 00 9 00
Shutter, porcelain, F. & L. screw	per gross	1 30 2 00
White door knobs	per doz.	.... 2 00

HAY KNIVES.

Net prices.

LAMP WICKS.

Discount, 60 per cent.

LADDERS, EXTENSION.

Waggoner Extension Ladders, dis. 40 per cent.

LANTERNS.

Cold Blast	per doz.	4 50
No. 3, "Wright's"	"	8 50
Ordinary, with O burner	"	4 00
Dashboard, cold blast	"	9 00
No. 0	"	5 75

Japanning, 50c. per doz. extra.

LEMON SQUEEZERS.

Porcelain lined	per doz.	2 20 5 60
Galvanized	"	1 87 3 85
King, wood	"	2 75 2 90
King, glass	"	4 00 4 50
All glass	"	0 50 0 90

LAWN MOWERS FOR 1905.

Woodyatt, 10½-in., 14-in. cut		$ 8 50 to $11 00
Star, 9 -in.	"	6 00 to 6 50
Daisy, 8 -in.	"	5 25 to 5 75
Philadelphia, 7½-in.	"	6 00 to 7 50
Woodyatt, 10½-in., ball bearing		13 25 to 18 00
Grass Boxes		1 75 to 2 00
King Edw'd 12-in., 14-in. cut		9 00 to 10 00

Horse Lawn Mowers, "Special."

Discount, 50 per cent., with freight concessions in quantity shipments.

MAXWELL & SONS

10½-in. high wheel	0	10 00
9-in	5 50	6 25
8-in	4 90	5 50

Discount 50 per cent.

LOCKS.

Canadian, 50 to 50 and 10 per cent
Russell & Erwin, steel rim ...per doz. 2 25

Cabinet.

Eagle, discount 30 per cent.

Padlocks.

English and Am.	per doz.	0 50 6 00

Eagle, discount 20 to 25 per cent.

MACHINE SCREWS.

Iron and Brass.

Flat head, discount 25 per cent.
Round head, discount 20 per cent.

MALLETS.

Tinsmiths'	per doz.	1 25 1 50
Carpenters', hickory,	"	1 25 3 75
Lignum Vitae	"	3 85 5 00
Caulking, each		0 60 2 00

MATTOCKS.

Canadian	per doz.	5 50 6 00

MEAT CUTTERS.

American, discoun 3½ per cent.
German, 15 per cen
Gem .....each 1 15

MILK CAN TRIMMINGS.

Discount 25 per cent.

NAILS.

	Cut.	Wire
2d	3 40	3 25
3d	3 05	2 90
4 and 5d	2 80	2 65
6 and 7d	2 70	2 55
8 and 9d	2 55	2 40
10 and 12d	2 50	2 35
16 and 20d	2 45	2 30
30, 40, 50 and 60d (base)	2 40	2 25

F.o.b. Toronto.
Steel cut nails 10c. extra.
Miscellaneous wire nails, discount 75 per cent.
Coopers' nails, discount 30 per cent.

NAIL PULLERS.

German and American	85	2 50
No. 1	85	
No 1573	75	

NAIL SETS.

Square, round and octagon, per gross	3 38
Diamond	1 00

POULTRY NETTING.

2-in. Mesh, 19 w.g., dis. 60 per cent.
2-in. Mesh 16 w.g. 60 per cent.
Smaller than 2 in. dis. 55 per cent.

OAKUM.

U. S. Navy	per 100 lb.	6 75
Plumbers	"	3 00

OILERS.

McClary's Model galvanized oil can, with pump, 5 gallon, per dozen	10 00

Davidson oilers, discount 40 per cent.
Zinc and tin, discount 50, 50 and 10 per cent.

Copper	per doz.	1 25 3 50
Brass	"	1 50 3 50

Malleable, discount 25 per cent

GALVANIZED PAILS.

Dufferin pattern pails, discount 47½ per cent
Flaring pattern, discount 47½ per cert.
Galvanized washtubs, discount 47½ per cent

PIECED WARE.

Discount 40 per cent off list, June, 1899.
10-qt. flaring sap buckets, discount 40 per cent
6, 10 and 14-qt. flaring pails dis. 40 per cent.
Creamer cans, discount 40 per cent.

PICKS.

Per dozen		6 00 9 00

PICTURE NAILS.

Porcelain head	per gross	1 35 1 50
Brass head	"	0 40 1 00

PICTURE WIRE.

Tin and gilt, discount 75 per cent.

PINE TAR.

½ pint in tins	per gross	7 80
1 " "	"	9 60

PLANES.

Wood bench, Canadian discount 40 per cent. American discount 50 per cent.
Wood, fancy Canadian or American 37½ to 40 per cent

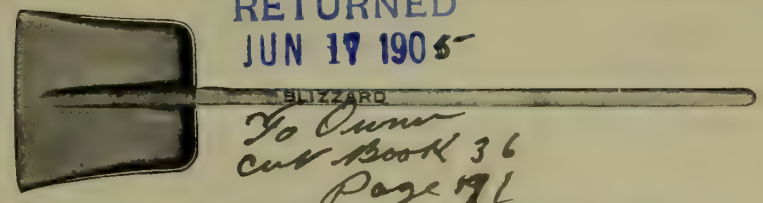
RETURNED
N 17 1905

THE BLIZZARD

Solid, Strong, Steel Shovel for Stable, Store or Furnace

RETURNED
JUN 17 1905

Crowning at point for Cutting Ice.



Two Sizes: No. 1, 14 in. wide; No. 2, 9¼ in. wide.

Factories: NEWMARKET, ONT.

Branches: WINNIPEG, OTTAWA, MONTREAL.

The best and strongest STEEL SHOVEL of its kind ever offered to the trade. Write for quotations.

THE OFFICE SPECIALTY MFG. CO., LIMITED

Everything in Business Furniture and and Card Systems in Stock.

97-105 Wellington St. West, (near York), TORONTO

PUNCHES.

Saddler's .....per doz.	1 00	1 85
Conductor's..... "	3 00	15 00
Finners', solid.....per set	....	0 72
" hollow.....per inch	....	1 00

RAKES.

Wood.....per doz. net 1 20 up

RAZORS.

	per doz.	
Elliot's	4 00	18 00
Geo. Butler's & Co.'s.....	4 00	18 00
Boker's	7 50	11
" King Cutter	13 50	18 50
Wade & Butcher's.....	3 60	10 00
Wilkinson's.....	....	12 50
Carbo Magnetic.....	....	15 00
Griffon Barber's Favorite	....	10 75
Griffon No. 65.....	....	13 00
Griffon Safety Razors.....	....	13 50
Griffon Stropping Machines..	....	13 50
Lewis Bros. "Klean Kutter"	8 50	10 50
Hindoo	10 50	14 00
Orgsteom's Swedish.....	3 50	10 00
Henckel's	7 50	20 00

Clauss, 50 and 10 per cent.
Clauss Strops, 50 and 10 per cent.

REGISTERS.

Discount 40 per cent.

RIVETS AND BURRS.

New List.

Iron Rivets, black and tinned, 60 and 10 and 10 per cent.
Iron Burrs, discount 60 and 10 and 10 p.c.
Copper Rivets, with usual proportion burrs, 45 per cent.
Copper Burrs only, discount 30 and 10 per cent.
Extras on Tinned or Coppered Rivets, ½-lb. packages 1c. per lb.; ¼-lb. packages 2c. lb.

RIVET SETS.

Canadian, discount 35 to 37½ per cent.

ROPE, ETC.

Sisal.....		0 11
Pure Manilla		0 14½
"British" Manilla.....		0 11
Cotton, 3-16 inch and larger 0 21		0 23
" 5-32 inch 0 25		0 27
" ⅛ inch 0 25		0 28
Russia Deep Sea		0 16
Jute.....		0 09
Lath Yarn, single		0 10
" double		0 10½
Sisal bed cord, 48 feet.....per doz.		0 65
" " 60 feet ..... "		0 80
" " 72 feet..... "		0 95

RULES.

Boxwood, discount 70 per cent.
Ivory, discount 20 to 25 per cent.

SAD IRONS.

Mrs. Potts, No. 55, polished....per set		0 75
" No. 50, nickle-plated, "		0 80
Common, plain.....		4 50
" plated		5 50

SAND AND EMERY PAPER.

B. & A. sand, discount, 40 and 5 per cent
Emery, discount 40 per cent.
Garnet (Rurton's) 5 to 10 per cent. advance on list.

SAP SPOUTS.

Bronzed iron with hooks ....per 1,000 7 50
"Eureka" tinned steel, hooks " 8 00

SAWS.

Hand, Disston's, discount 12½ per cent
S. & D., discount 40 per cent.
Crosscut, Disston's....per foot 035 0 55
S. & D., discount 35 per cent. on Nos. 2 and 3.

Hack, complete.....each	0 75	2 75
" frame only.....each	0 50	1 25

S. & D. solid tooth circular shingle, concave and band, discount 50 per cent.
" mill and ice, drag, discount 30 per cent
" cross-cut, discount 35 per cent.
" hand saws, butcher, disc't 40 per cent
" compass, pruning and back, discount 45 per cent.
" buck, New Century.....$6 25
" " No. 1 Maple Leaf..... 5 25
" " Happy Medium..... 4 25
" " Watch Spring..... 4 25
" " common frame. 4 00

SASH WEIGHTS.

Sectional.....per 100 lb.	2 00	2 25
Solid ..... "	1 50	1 75

SASH CORD.

Per lb.....	0 28	0 30

SAW SETS.

	per doz.
Lincoln and Whiting	4 75
Hand Sets, Perfect	4 00
X-Cut Sets, "	7 50

SCALES.

Gurney Standard, 40 per cent.
Gurney Champion, 50 per cent.
Burrow, Stewart & Milne—
Imperial Standard, discount 40 per cent.
Weigh Beams, discount 35 per cent.
Champion Scales, discount 50 per cent.
Fairbanks standard, discount 35 per cent.
" Dominion, discount 55 per cent.
" Richelieu, discount 55 per cent.
Warren's new Standard, discount 40 per cent.
" " Champion, discount 50 per cent.
" Weighbeams, discount 35 per cent.

SCREW DRIVERS.

Sargent's .....per doz.	0 65	1 00

SCREEN DOORS.

Common doors, 2 or 3 panel, walnut stained, 4-in. style.....per doz.	6 50
Common doors, 2 or 3 panel, yellow and green stained, 4-in. style....per doz.	6 75
Common doors, 2 or 3 panel, in natural colors, oil finish .....per doz.	8 75

3-in. style 20c. per dozen less.

SCREWS.

Wood, F. H., bright and steel, discount 87½ per cent.
Wood, R. H., bright, dis. 82½ per cent.
" F. H., brass, dis. 80 per cent.
" R. H., " dis. 75 per cent.
" F. H., bronze, dis. 75 per cent.
" R. H., " dis. 70 per cent.
Drive Screws, dis. 87½ per cent.

Bench, wood .....per doz.	3 25	4 00
" iron ..... "	4 25	5 00

Set, case hardened, dis. 60 per cent.
Square Cap, dis. 50 and 5 per cent.
Hexagon Cap, dis. 45 per cent.

SCYTHES.

Per doz. net.....	6 00	9 00

SCYTHE SNATHS.

Canadian, discount 40 per cent.

SHEARS.

Clauss, nickel, discount 80 per cent.
Clauss, Japan, discount 67½ per cent.
Clauss, tailors, discount 40 per cent.
Seymour's, discount 50 and 10 per cent.

SHOVELS AND SPADES.

Canadian, discount 45 per cent.

SIEVES.

Cast iron, 16 x 24.....	....	0 85
" 18 x 30.....	....	1 00
" 18 x 36.....	....	1 40

SNAPS.

Harness, German, discount 25 per cent.
Lock, Andrews'..... 4 50 11 50

SOLDERING IRONS.

1, 1½-lb.....	per lb.	0 37
2-lb. or over	"	0 34

SQUARES.

Iron, No. 492 .....per doz.	1 90	2 25
" No. 493 ..... "	2 40	2 55
" No. 494 ..... "	3 25	3 40

Steel, discount 60 and 5 to 65 per cent.
Try and Bevel, discount 50 to 52½ per cent.

STAMPED WARE.

Plain, discount 75 and 12½ per cent. off revised list.
Retinned, discount 75 per cent. off revised list

STAPLES.

Galvanized	....	3 00
Plain	....	2 80

Coopers', discount 45 per cent.
Poultry netting staples, discount 40 per cent.

STOCKS AND DIES.

American discount 25 per cent.

STONE.

Washita .....per lb.	0 28	0 60
Hindostan ..... "	0 06	0 07
" slip ..... "	0 09	0 09
Labrador..... "	....	0 13
" Axe..... "	....	0 15
Turkey ..... "	....	0 50
Arkansas..... "	....	1 50
Water-of-Ayr ..... "	....	0 10
Scythe .....per gross	3 50	5 00
Grind, 40 to 200 lb., per ton....	....	25 00
" under 40 lb.. "	....	28 00
" 200 lb. and over	....	31 00

STOVEPIPES.

5 and 6 inch, per 100 lengths	....	7 00
7 inch..... "	....	7 50

TACKS, BRADS, ETC.

Carpet tacks, blued	80 and 15
" " tinned.....	80 and 20
" " (in kegs).....	40
Cut tacks, blued, in dozens only	80
" ½ weights	60
Swedes cut tacks, blued and tinned—	
In bulk.....	80 and 10
In dozens	75
Swedes, upholsterers', bulk....85,	12½ and 12½
" brush, blued and tinned bulk	70
Swedes, gimp, blued, tinned and japanned.....	75 and 12½
Zinc tacks	35
Leather carpet tacks.....	55
Copper tacks.....	50
Copper nails	52½
Trunk nails, black	65 and 5
Trunk nails, tinned.....	65 and 10
Clout nails, blued	65 and 5
Chair nails.....	35
Patent brads.....	40
Fine finishing.....	40
Lining tacks, in papers.....	10
" " in bulk.....	15
" " solid heads, in bulk	75
Saddle nails, in papers.....	10
" " in bulk.....	15
Tufting buttons, 22 line, in dozens only	60
Zinc glaziers' points	5
Double pointed tacks, papers..	90 and 10
" " " bulk....	40
Clinch and duck rivets.....	45

TAPE LINES.

English, ass skin.....per doz.	2 75	5 00
English, Patent Leather	5 50	9 75
Chesterman's .....each	0 90	2 85
" steel.....each	0 80	8 00

TINNERS' SNIPS.

Per doz.....	3 00	15 00

Clauss, discount 35 per cent.

THERMOMETERS.

Tin case and dairy, 75 to 75 and 10 per cent.

TRAPS (steel.)

Game, Newhouse, discount 25 per cent.
Game, H. & N., P. S. & W., 45 and 5 per cent.
Game, steel, 60 and 5 per cent.

TROWELS.

Disston's, discount 10 per cent.
German.....per doz. 4 75 6 00
S. & D., discount 35 per cent.

TWINES.

Bag, Russian .....per lb.	....	0 27
Wrapping, cotton, 3-ply	....	0 24
" 4-ply	....	0 27
Mattress .....per lb.	0 33	0 45
Staging..... "	0 27	0 35

VISES.

Wright's.....	....	0 13½
Brook's.....	....	0 12½
Pipe Vise, Hinge, No. 1.....	....	3 50
" " No. 2.....	....	5 50
Saw Vise.....	....	4 50

Columbia Hardware Co.
Blacksmiths' (discount) 60 per cent.
" parallel (discount) 45 per cent

ENAMELLED WARE.

White, Princess, Turquoise, Blue and White discount 50 per cent.....
Diamond, Famous, Premier, discount 50 and 10 per cent.....
Granite or Pearl, Imperial, Crescent, discount 50, 10 and 10 per cent.
Premier steel ware, 40 per cent.
"Star" decorated steel and decorated whit 25 per cent.

WIRE.

Smooth Steel Wire.

No. 0-9 gauge.....		$2 15
10 "		6c. extra.
11 "		12c. "
12 "		20c. "
13 "		30c. "
14 "		40c "
15 "		55c. "
16 "		70c. "

Add 60c. for coppering and $2 for tinning.
Extra net per 100 lb.—Oiled wire 10c. spring wire $1.25, special hay baling wire 30c. best steel wire 75c., bright soft drawn 15c., charcoal (extra quality) $1.25, packed in casks or cases 15c., bagging and papering 10c., 50 and 100-lb. bundles 10c., in 25-lb. bundles 15c., in 5 and 10-lb. bundles 25c., in 1-lb. hanks, 50c., in ½-lb. hanks 75c., in ¼-lb. hanks $1.
Fine Steel Wire, discount 27½ per cent. List of extras: In 100-lb. lots: No. 17, $5—No. 18, $5.50—No. 19, $6—No. 20, $6.65—No. 21, $7—No. 22, $7.30—No 23, $7,65—No. 24, $8—No. 25, $9—No. 26, $9.50—No. 27, $10—No. 28, $11—No. 29, $12—No. 30, $13—No.31, $14—No. 32, $15—No. 33, $16—No. 34, $17. Extras net—tinned wire, Nos. 17-25, $2—Nos. 26-31, $4—Nos. 32-34, $6. Coppered, 5c.—oiling, 10c.—in 25-lb. bundles, 15c.—in 5 and 10-lb. bundles, 25c.—in 1-lb. hanks, 25c.—in ½-lb. hanks, 38c.—in ¼-lb. hanks, 50c.—packed in casks or cases, 15c.—bagging or papering, 10c.
Brass wire, discount 60 per cent. off the list.
Copper wire, discount 60 per cent. net cash 30 days, f.o.b factory.
Galvanized wire, per 100 lb.—Nos. 4 and 5, $3.70 to $3.70—Nos. 6, 7, 8, $3.15 to $3.15—No. 9, $2.55 — No. 10, $3.20 to $3.20—No. 11, $3.25 to $3 25 — No. 12, $2.65—No. 13, $2.75—No. 14. $3.75 to $3.75—No 15, $4.30—No. 16. $4.30. Base sizes, Nos. 6 to 9, $2.37½ f.o.b. Cleveland. In carlots 12½c. less.
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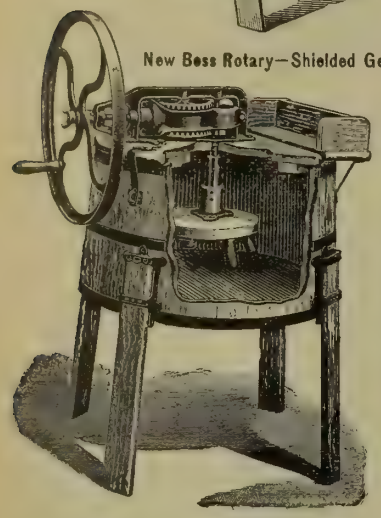
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INDEX TO ADVERTISERS.

A

Acme Lathe & Products Co 41
American Shearer Mfg. Co 23
American Steel and Wire Co 4
Atkins, E. C., & Co 57
Armstrong Bros 10, 49
Atlas Mfg. Co 60

B

Barnett, G. & H., Co ....outside back cover
Berry Bros 47
Birkett, Thos., & Son Co. 1
Bolton, Fane & Co 54
Boss Machine Co 66
Bosson Bros 60
Bradstreet's 68
Brantford Cordage Co 11
Butler, Geo., & Co 55

C

Canada Brass Rolling Mills 29
Canada Foundry Co. 53
Canada Iron Furnace Co. 37
Canada Paint Co 50
Canada Paper Co 23
Canadian Aluminum Works 45
Canadian Fairbanks Co 27
Canadian Rubber Co 14
Canadian Sewer Pipe Co 60
Clauss Shear Co 63
Consolidated Plate Glass Co 49
Consumers' Cordage Co 13
Contract Record 60
Covert Mfg. Co 53
Crain, Rolla L., Co 43
Cutts, C. M. & Co 43

D

Davidson, Thos., Mfg. Co 2
Deseronto Iron Co 37
Dods, P. D., & Co 49
Dominion Belting Co 8
Dominion Wire Mfg. Co. 4
Dorken Bros. .....outside front cover, 51
Dowswell Mfg. Co 51
Drummond, McCall & Co 12

E

Enterprise Mfg. Co., of Akron, Ohio ... 68
Erie Specialty Co 68

F

Fabien, C. P 51
Falkiner, H. F 54
Ferrosteel Co 25
Frothingham & Workman 11

G

Gelinas, Fred 53
Gibb, Alexander 26
Gies, Philip 23
Gilbertson, W., & Co 53
Glauber Brass Co 23
Great West Wire Fence Co 41
Greening, B., Wire Co 9
Grey & Bruce Portland Cement Co 59
Grove Chemical Co 49
Gurney Foundry Co 29, 55
Gurney, Tilden Co 57
Gutta Percha and Rubber Mfg. Co....
outside back cover

H

Hanover Portland Cement Co 59
Hart & Cooley Co 25
Harrington & Richardson Arms Co 53
Heinisch, R., Sons Co 8
Henderson, J. A. 43
Henderson & Potts Co 48
Herm, Weissenburger & Co 53
Hobbs Hardware Co 5
Hobbs Mfg. Co 59
Howland, H. S., Sons & Co 19
Hyde, F. & Co 37

I

Imperial Varnish and Color Co 46

J

Jackson, C. F., & Co 37
Jardine, A. B., & Co. 23
Jenking, A. C. 53
Johnson's, Iver, Arms and Cycle Works 18
Johnston, Rd., Clapham & Morris. 12

K

Kemp Mfg. Co 14
Kerr Engine Co 22

L

Lamplough, F. W., & Co 45
Leslie, A. C., & Co 37
Lewis Bros. & Co. 3
Lewis, Rice, & Son ..... inside front cover
Lockerby & McComb 57
London Rolling Mill Co. .inside back cover
Loughead, J. S., & Son 53
Lufkin Rule Co .....inside back cover
Lysaght, John. .....outside front cover

M

Mackenzie Bros 41
Manufactures List Co 43
Maple Leaf Harvest Tool Co 7
Martell-Stewart Co 42
Mast, J. M., Mfg. Co. 8
Maxwell, D., & Sons 12
Metallic Roofing Co 39
Montreal Rolling Mills Co 22
Morton, B. K., & Co 37
Morrison, James, Brass Mfg. Co 20
Morrow, John, Machine Screw Co 41
Mueller, H., Mfg. Co 27

Mc

McArthur, Alex., & Co 62
McArthur, Corneille & Co. 47
McCaskill, Dougall & Co 49
McClary Mfg. Co 30
McDougall, R., Co 37
McGregor-Banwell Fence Co 26

N

Naturo Co 24
Newman, W., & Sons 59
North Bros. Mfg. Co 1
North West Machinery & Iron Co 26
Nova Scotia Steel and Coal Co 37

O

Oakey, John, & Sons 54
Office Specialty Mfg. Co 65
Oneida Community .....inside back cover
Ontario Lantern and Lamp Co 53
Ontario Tack Co 16
Ontario Wind Engine and Pump Co .. 59
Owen Sound Wire Fence Co 9

P

Page-Hersey Iron and Tube Co 23
Paterson Mfg. Co 64
Pearce, Frank, & Co 16
Pedlar People 59, 61
Penberthy Injector Co 25
Phillips, Chas. D 59

Q

Queen City Oil Co 49

R

Ramsay, A., & Son Co 8, 25
Ross, J. A 8
Round, John, & Son 10
Royal Paper Mills Co....inside back cover
Russell & Erwin Mfg. Co 11

S

Sadler & Haworth .....outside back cover
Samuel, M. & L., Benjamin, & Co 2
Sanderson-Harold Co 29
Saunders, Franklin & Co 22
Scott, Greenwood & Co 49
Secker, E 42
Seymour, Henry T., Shear Co 8
Sharratt & Newth 8
Shaw, A., & Son 8
Sherwin-Williams Co 17
Silberstein, A. L., & Co 1
Silica Barytic Stone Co 60
Skedden Brush Co 47
Smith & Hemenway Co 23
Solarine Metal Polish 54
Standard Ideal Sanitary Co 20
Standard Paint and Varnish Works ... 49
Stanley Rule and Level Co 43
Steel Trough and Machine Co 42
Stephens, G. F., & Co 40
Summers, John, & Sons 6

T

Taylor-Forbes Co ..... outside front cover
Thompson, B. & S. H., Co .....
outside back cover
Thorne, R. E 26
Toronto Silver Plate Co 41
Turnbull & Henderson 26

U

United Brass Mfg. Co 27
Utica Drop Forge and Tool Co 23

V

Voss Bros. Mfg. Co 9

W

Walker Steel Range Co 55
Wallace Barnes Co 23
Walter, E. F., & Co 4
Welsh Tinplate & Metal Stamping Co. . 6
Western Wire Nail Co 8
Wilcox Mfg. Co 6
Wilkinson Sword Co 68
Winnipeg Paint and Glass Co 41
Wright, E. T., & Co 54

CLASSIFIED LIST OF ADVERTISEMENTS.

Aluminum Castings.
Canadian Aluminum Works Montreal.

Anvils
Taylor-Forbes Co., Guelph, Ont.

Art Glass.
Hobbs Mfg. Co., London, Ont.

Ash Sifter.
Cutts, C. M., & Co., Toronto Junction.

Automobiles.
Canada Cycle and Motor Co., Toronto.

Awnings, Tents, etc.
Bartlett, Wm., & Son, Toronto.

Babbitt Metal.
Canada Metal Co., Toronto.
Canadian Fairbanks Co., Montreal.

Belting, Hose, etc.
Birkett, Thos., & Co., Ottawa.
Canadian Rubber Co. of Montreal.
Dominion Belting Co., Hamilton, Ont.
Gutta Percha and Rubber Mfg. Co., Toronto.
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Canada Cycle and Motor Co., Toronto Junction.
Johnson's, Iver, Arms and Cycle Works, Fitchburg, Mass.

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Warminton, J. N., Montreal.

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Canada Brass Rolling Mills, Toronto.
Glauber Brass Mfg. Co., Cleveland, Ohio.
Lewis, Rice, & Son., Toronto.
Morrison, Jas., Brass Mfg. Co., Toronto.
Nicklin, J., & Co., Birmingham, Eng.
Penberthy Injector Co., Windsor, Ont.
Taylor-Forbes Co., Guelph, Ont.
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Thorne, R. E., Montreal.

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North Bros. Mfg. Co., Philadelphia, Pa.
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Phillips, Chas. D., Newport, Eng.
Secker, E., Sprowston, Norwich, Eng.
Smart, James, Mfg. Co., Brockville, Ont.
Smith & Hemenway Co., New York.
Silica Barytic Stone Co., Ingersoll, Ont.
Stanley Rule & Level Co., New Britain.
Stanley Works, New Britain, Conn.
Stephens, G. F., Winnipeg.
Taylor-Forbes Co., Guelph, Ont.
Waggoner Ladder Co., London, Ont.
Warnock, James, Galt, Ont.

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Covert Mfg. Co., West Troy, N.Y.
Lougheed, J. S., & Son, Sarnia, Ont.

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Waggoner Ladder Co., London, Ont.

Concrete Block Machines.
Concrete Block Machine Co., Toronto.

Cordage.
Brantford Cordage Co, Brantford, Ont.
Consumers' Cordage Co., Montreal.
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Erie Specialty Co., Erie, Pa.

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Turnbull & Henderson, Vancouver, B.C.

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Dorken Bros. & Co., Montreal.
Heinisch's, R., Sons Co., Newark, N.J.
Rouud, John, & Son, Sheffield, Eng.
Silberstein, A. L., New York.
Smith & Hemenway Co., New York.
Walter, E. F., & Co., Montreal.
Wiebusch & Hilger New York.
Wilkinson Sword Co., London, Eng.

Educational.
St. Margaret's College, Toronto.

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Canadian Aluminum Works, Montreal.
Mechanics' Supply Co., Quebec.
Morrison James, Mfg. Co., Toronto.
Munderloh & Co., Montreal.

Fence Machines.
London Fence Machine Co., London.

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Grose, Walter, Montreal.

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Enterprise Mfg. Co., Philadelphia, Pa.
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Ontario Wind Engine and Pump Co., Toronto.

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Kemp Mfg. Co., Toronto.
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Lysaght, John, Bristol, Eng.
Montreal Rolling Mills Co., Montreal.
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Hobbs Mfg. Co., London, Ont.
Imperial Varnish and Color Co., Toronto.
Jamieson, R. C., & Co., Montreal.
Lewis, Rice & Son, Toronto.
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McCaskill, Dougall & Co., Montreal.
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Jardine, A. B., & Co, Hespeler, Ont.
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Mechanics' Supply Co., Quebec.
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Mueller, H., Mfg. Co., Decatur, Ill.
Naturo Co., Salem, N.J.
Page-Hersey Iron & Tube Co., Guelph.
Standard Ideal Sanitary Co., Port Hope,
Utica Drop Forge & Tool Co., New York.

Portland Cement.
Canadian Portland Cement Co., Toronto
Grey & Bruce Portland Cement Co., Owen Sound.
Hanover Portland Cement Co., Hanover, Ont.
Hyde, F., & Co., Montreal.
Thompson, B. & S. H. & Co., Montreal.

Pottery.
Foster Pottery Co., Hamilton, Ont.

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Greening, B., wire Co., Hamilton, Ont.
Page Wire Fence Co., Walkerville, Ont.

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Fabien, C. P., Montreal
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Dover Mfg. Co., Canal Dover, Ohio.

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New Warren Scale Co., Montreal.

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Bayliss, Jones & Bayliss, Wolverham ton, Eng.
Canada Foundry Co., Toronto.
Montreal Rolling Mills Co., Montreal.
Morrow, John, Machine Screw Co. Ingersoll, Ont.

Sewer Pipes.
Canadian Sewer Pipe Co., Hamilton
Hyde, F., & Co., Montreal.

Shelf Boxes.
Bennett Mfg. Co., Pickering, Ont.

Shelf Brackets.
Atlas Mfg. Co., New Haven, Conn

Silverware.
Toronto Silver Plate Co., Toronto.
Round, John, & Son, Sheffield, Eng.

Skates.
Canada Cycle & Motor Co., Toronto.

Stable Fixtures.
Greening, B., Wire Co., Hamilton, Ont.
Oneida Community Co., Niagara Falls Ont.

Steel Rails.
Algoma Steel Co—Drummond, McCall & Co., Agents, Montreal.
Jackson, C. F., & Co., Vancouver, B.C.
Morton, B. K., & Co., Sheffield, Eng.
Nova Scotia Steel & Coal Co., New Glasgow, N.S.

Storage Warehouse.
Mackenzie Bros., Winnipeg.

Store Lighting.
Auer Light Co., Montreal.

Stoves and Tinware, Radiators, Furnaces, etc.
Canadian Heating & Ventilating Co. Owen Sound.
Davidson, Thos., Mfg. Co., Montreal.
Gies, P., Berlin, Ont.
Gurney Foundry Co., Toronto.
Kemp Mnfg. Co., Toronto.
McClary Mfg. Co., London.
Ross, J. A., Winnipeg, Man.
Smart, Jas., Mfg. Co., Brockville, Ont.
Telephone City Stores, Brantford, Ont.
Walker Steel Range Co., Grimsby, Ont.
Wright, E. T., & Co., Hamilton.

Tacks.
Ontario Tack Co., Hamilton.
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Mast, J. M., Mfg. Co., Lititz, Pa.

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Steel Trough and Machine Co., Tweed, Ont

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Stauntons Limited, Toronto.

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Boss Washing Machine Co., Cincinnati, O.
Connor, J. H., & Son, Ottawa.
Dowswell Mfg. Co., Hamilton, Ont.
Taylor Forbes Co., Guelph, Ont.
Voss Bros. Mfg. Co., Davenport, Iowa.

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Birkett, Thos., & Sons Co., Ottawa.
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Greening, B., Wire Co., Hamilton.
Ironside, Son & Co., London, Eng.
McGregor - Banwell Fence Co., Walkerville, Ont.
Montreal Rolling Mills Co., Montreal.
Oneida Community, Niagara Falls.
Owen Sound Wire Fence Co., Owen Sound
Page Wire Fence Co., Walkerville, Ont.
Walter, E. F. & Co., Montreal.
Western Wire & Nail Co., London, Ont.
Wilcox Mfg. Co., London, Ont.

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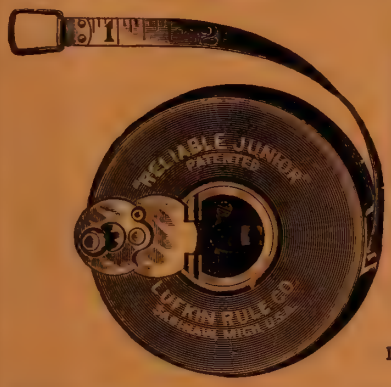
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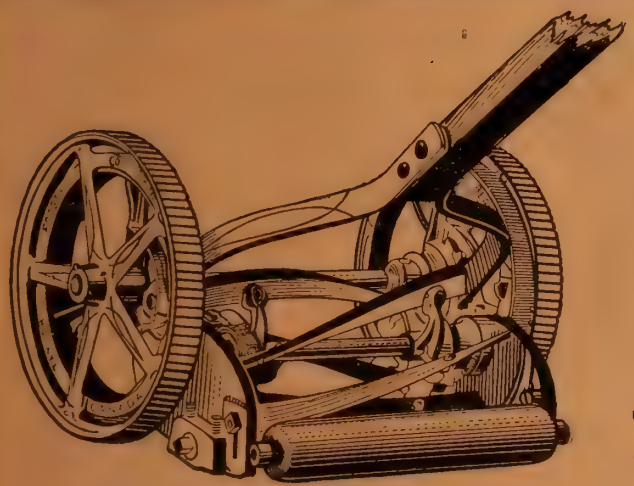
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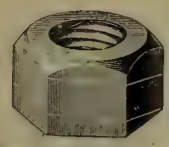
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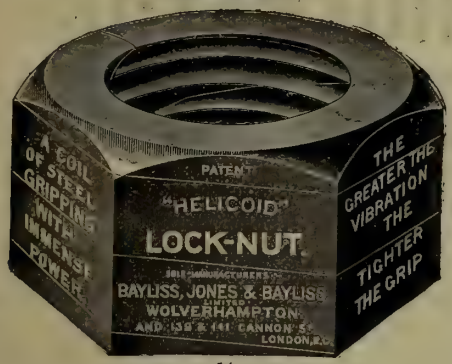
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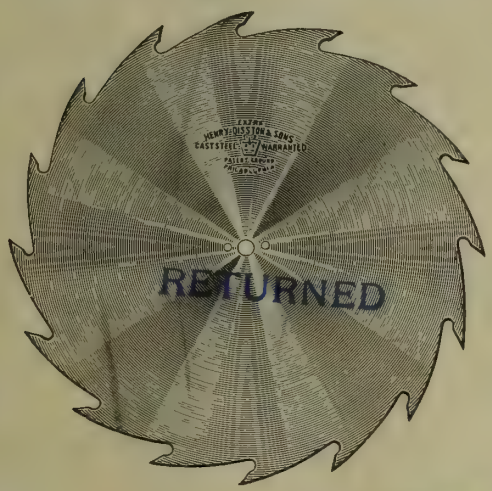
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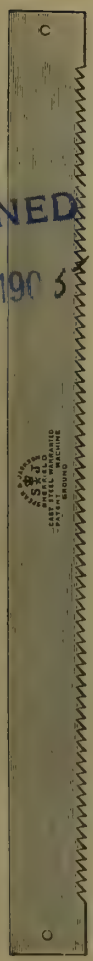
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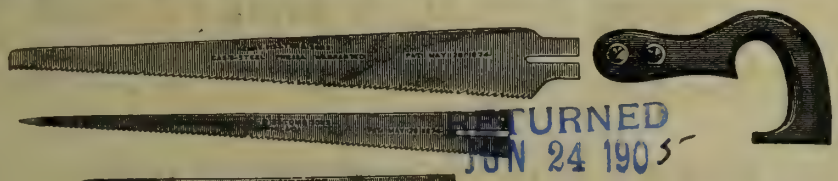
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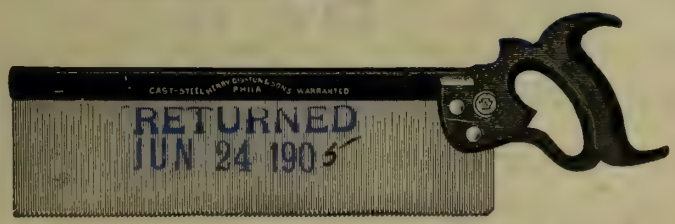
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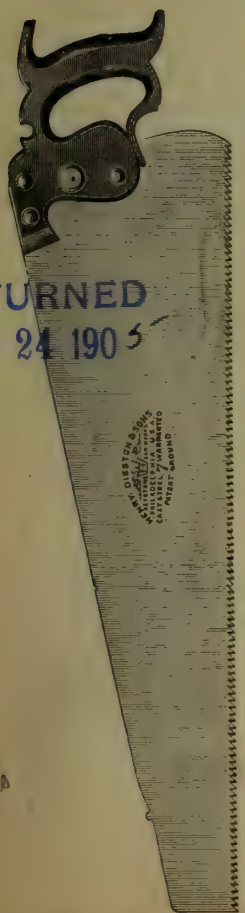
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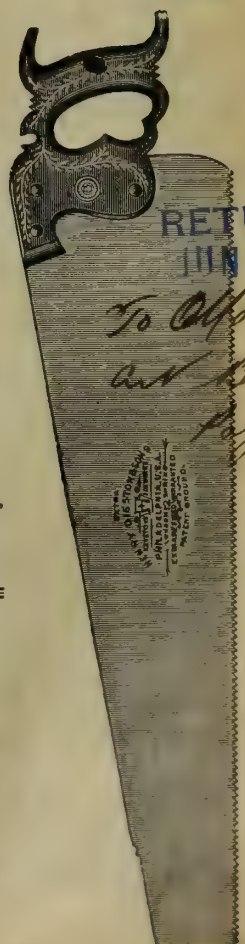
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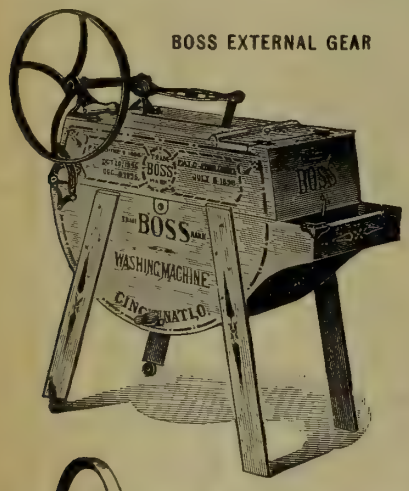
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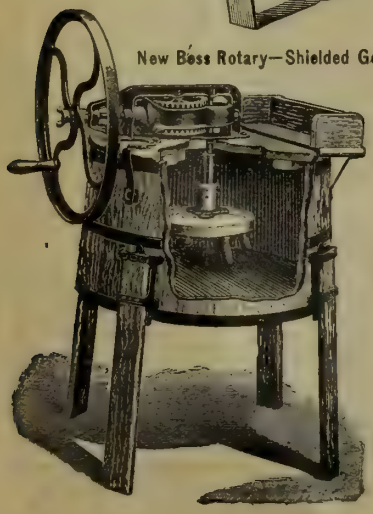
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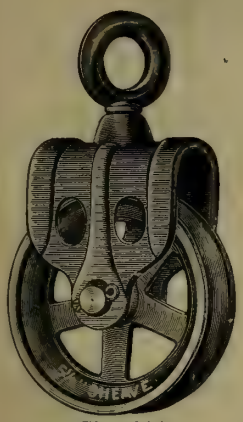


Fig. 692.

Cast Iron Pulley

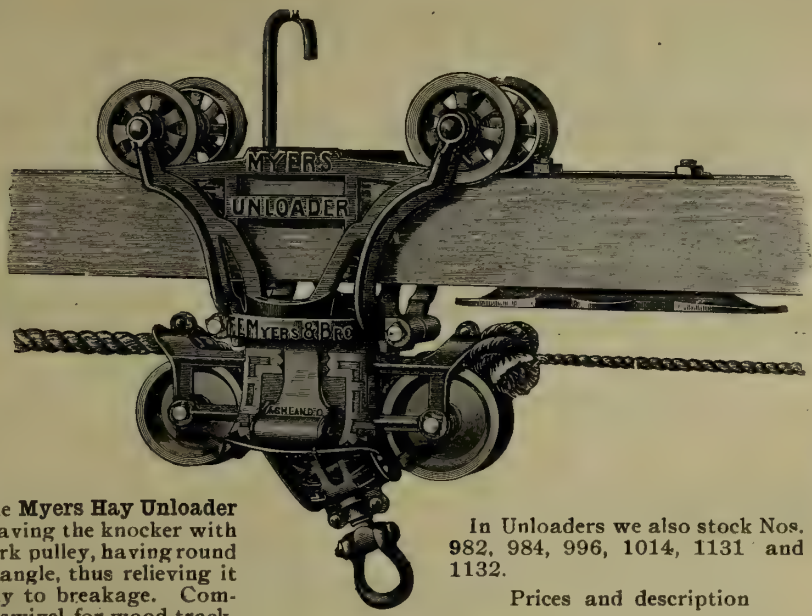


Fig. 996.

Fig. 996 illustrates the **Myers Hay Unloader** as it would appear in leaving the knocker with a swinging load. The fork pulley, having round top, can swing at any angle, thus relieving it from strain and liability to breakage. Combination, reversible and swivel, for wood track. It has seven-eighth inch turned steel axles.

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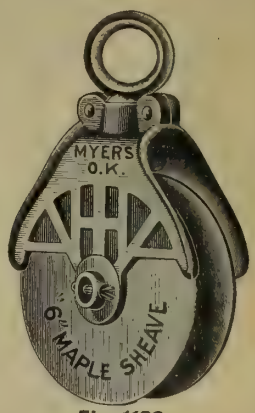


Fig. 1133

Myers O.K. Plain Pulley



Fig. 436

Rafter Bracket

MYERS' HAY TOOLS

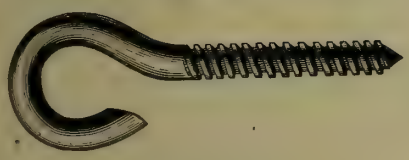


Fig. 266.

Floor Hook

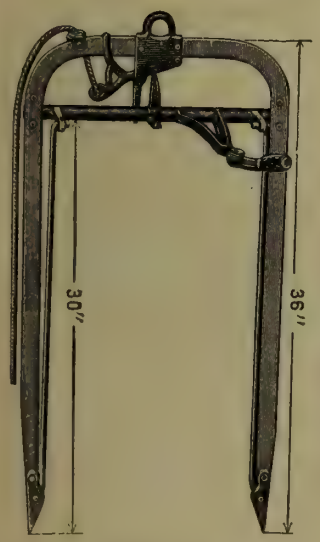


Fig. 670

Fig. 670 illustrates the **Myers Lock Lever Harpoon Hay Fork.** This fork is 19 inches wide, is made of spring steel; sets with one lever and locks open. While it is not larger than the regular double harpoon (except in width), it has 50 per cent. more capacity, owing to the cross-bar being placed nearer the top; and it gathers the grain or hay from the end of point, not two inches from the bottom, as all old-style forks do. We also stock No. 268.

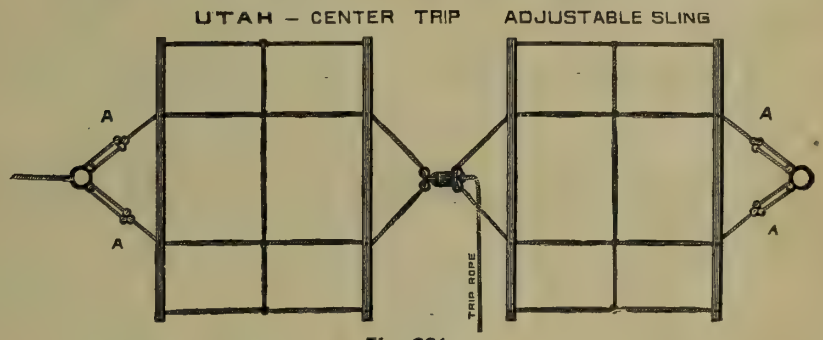


Fig. 621

Fig. 621 illustrates the **Utah Center Trip Adjustable Sling,** which has all the advantages of the Myers Center Trip Adjustable Sling, with the following changes: Instead of a three-foot cross-bar, the Utah has a six-foot, which extends beyond the side-ropes eighteen inches on either side, to which is attached an additional rope, and also a cross-rope attached to each of the main ropes, as shown in the cut. This sling really forms a net, and is designed to carry fine stuff. We also stock No. 620.

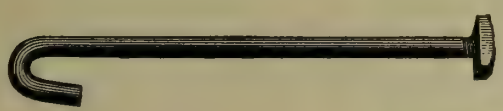


Fig. 267

Wood Track Hanging Hook

Fig. 824.

Double Steel Track and Splicing Clamp.



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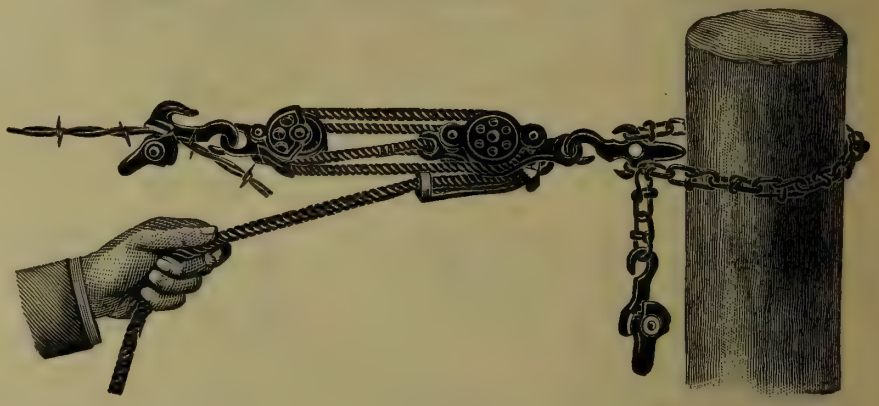
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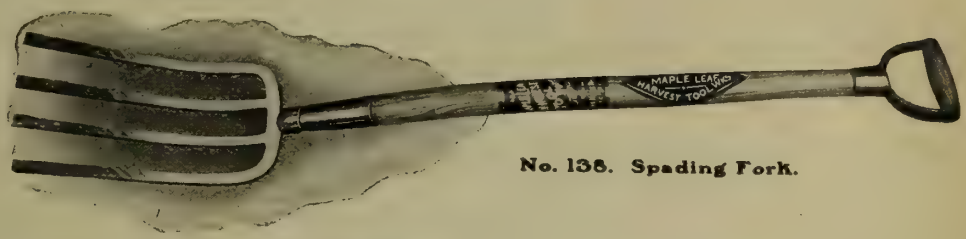
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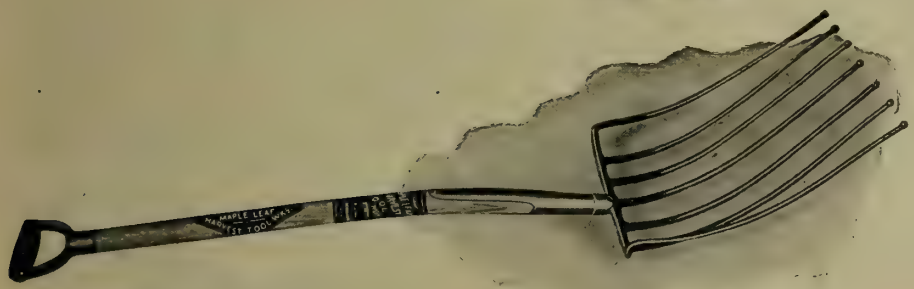
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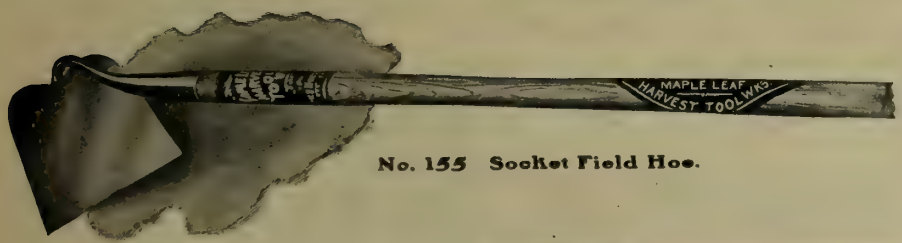
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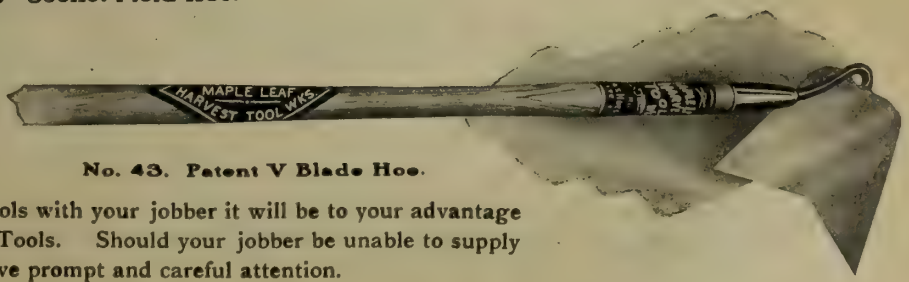
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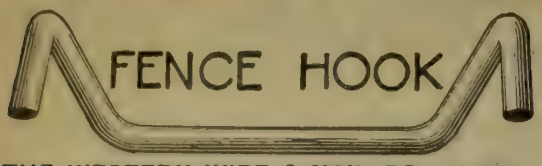
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Agents for Canada: A. Ramsay & Son Company, Montreal

GLAZIERS' DIAMONDS



Ahead of all others in **quality** and **workmanship**. If **sparks** of **fine quality**, **set by experts**, are what you require, buy Diamonds of **A. Shaw & Son's** make.

Canadian Agent
GODFREY S. PELTON
388 ST. PAUL ST., MONTREAL

CELEBRATED HEINISCH SHEARS

Tailors' Shears,
Trimmers' Shears,
Tinners' Snips, etc.



ACKNOWLEDGED THE BEST.

R. HEINISCH'S SONS CO. NEW YORK OFFICE, 185 Chambers St NEWARK, N.J., U.S.A.

HENRY T. SEYMOUR SHEAR CO. NEW YORK. TRADE MARK

SEYMOUR SHEARS

HAVE BEEN THE
Standard for over Half a Century.
"QUALITY UNQUESTIONED."
Each pair of our shears bears the above trade mark.

HENRY T. SEYMOUR SHEAR CO. NEW YORK. TRADE MARK



Latest Catalogue will be sent in exchange for your business card.

Complete Line *TRIMMERS', BANKERS', BARBERS' and TAILORS' SHEARS, Etc., Etc.*

Henry T. Seymour Shear Company
WIEBUSCH & HILGER, Limited, NEW YORK, Sole Agents

Mr. Dealer:



Do you know there's a demand for a *good* steam cooker which you should supply? The profit on goods you are "out of" will never come back. We prefer to sell a progressive dealer rather than direct.

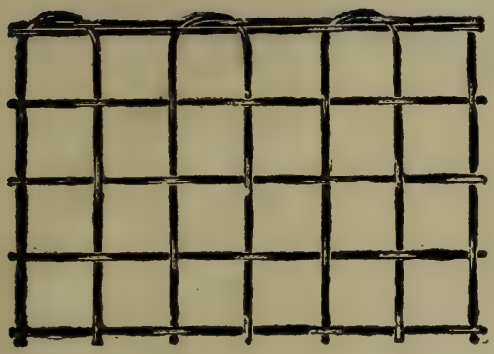
IDEAL STEAM COOKERS

are advertised thoroughly in all the national publications from Ladies' Home Journal down. Get our proposition—it means profits—*Dollars*—to you. We are the largest manufacturers in the world. Our lines are complete. We make all good kinds—Square (with whistles) Round (with whistles) in all desirable sizes, at all prices. 36-PAGE BOOK FREE—Write for it to-day, with confidential prices to dealers.

J. A. Ross
Sole Canadian Agent
141 Bannatyne Ave.
Winnipeg, Man.

MAPLE LEAF
STITCHED COTTON DUCK
BELTING
DOMINION BELTING CO. LTD.
HAMILTON CANADA

WIRE CLOTH



Special Regalvanized Cloth for Apple and Fruit Drying.

Stock widths, 24, 30 and 36 in.
Other widths and meshes made to order.

Also ½-in. Galvanized Netting.

Stock widths, 24, 30 and 36 in.
Stock lengths, 25 and 50 yards.

Also Wire Cloth and Netting.

FOR ALL PURPOSES.

THE B. GREENING WIRE CO.
LIMITED
HAMILTON, ONT. MONTREAL, QUE.

Dillon Hinge-Stay Fence

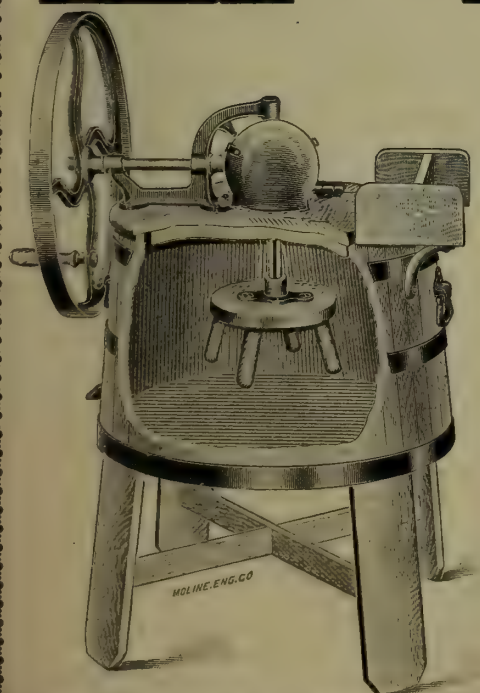


Don't let YOUR farmer customer go to the OTHER Hard ware for his fencing because you have none. If so, he is likely to get his Stove, Harvest Tools and other goods there, too.

Put in a small attractive stock of our 1905 DILLON fence ing, keep it where it can be seen and it will attract farm custom. Good margin in it for you, too.

OWEN SOUND WIRE FENCE CO., LIMITED,
Owen Sound, Ont.
MESSRS. CAVERHILL, LEARMONT & CO.,
(Eastern and Western Agents,) **Montreal and Winnipeg**

1905 Ocean Wave Washer



Accident Proof! Dust Proof!

SPECIAL FEATURES:

1st. Covered Gearing
which can be opened instantly to expose working mechanism.

2nd. Improved Dasher
We do not use **wooden** Dasher Pole.

3rd. Mechanical Movement Most Simple ever Constructed.

4th. The Best Seller
because it is more attractive than others.

Sold to only one dealer in each town.
Trial Order will convince.
Write us.

VOSS BROS. MFG. CO.——DAVENPORT, IOWA, U.S.A.

John Round & Son, Limited

Manufacturing
GOLDSMITHS and SILVERSMITHS
Contractors to
H. M. ADMIRALTY & WAR OFFICE

REGISTERED TRADE MARKS
J.R. & S. Ltd. ALL OVER THE ROUND J.R. & S. Ltd.
ESTABLISHED 1847

Tudor Works:
SHEFFIELD, England
and
112 HATTON GARDEN, LONDON



31520.—ENTREE DISH.

Manufacturers of all Kinds of

GOLD, SILVER
ELECTRO PLATE ON NICKEL
and BRITANNIA METAL GOODS
Silver and Plated Cutlery
Steel Cutlery, Oak and Inlaid Goods
With Silver and Plated Mounts



31197.—E.P.N.S. CAKE BASKET

Our Manufactures have a world-wide reputation of over 50 years' standing. We are the largest makers of spoons in the world.

WE WANT TO MAIL OUR CATALOGUES TO ALL CANADIAN DEALERS
WILL YOU SEND US YOUR NAME?

HOTEL and **SHIP'S OUTFITS**, special goods for hard wear
Special designs for all purposes supplied free

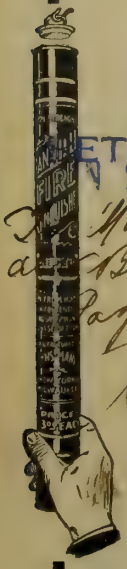
WHATEVER YOUR REQUIREMENTS ARE DROP US A LINE

Mr. Hardware Dealer

There is a great demand at present for a portable fire extinguisher which can be sold at a reasonable price and yield a good profit to the seller.

THE MANVILLE *Dry Powder* FIRE EXTINGUISHER

solves the problem.



RETURNED
JAN 28 1903
Montreal
Book 34
Page 13

The Manville Fire Extinguisher is a Dry Powdered Chemical Compound contained in a metal tube 22 inches long, 2 inches in diameter, weighing three pounds. It is hung on a hook or nail by means of a ring strongly fastened in the cover of the tube. The Dry Powdered Chemical Compound Fire Extinguisher is now recognized as the most effectual of all devices for fighting incipient fires in the home, store, factory and elsewhere, and is receiving the universal endorsement and patronage of the public.

Retails at $3.00 each **Send Sample Order** **Wholesale price $24.00 per doz.**

Sole Canadian Agents:

THE CANADIAN FAIRBANKS CO. LIMITED

MONTREAL TORONTO VANCOUVER WINNIPEG

LARGE IRON HALF OVALS

F. & W.

We have recently added a stock of the following large sizes frequently used for coping on barges and steamships :

$2 \times \frac{3}{8}$, $2\frac{1}{2} \times \frac{1}{2}$, $3 \times \frac{5}{8}$, $4 \times \frac{5}{8}$ in.

These are large sizes for iron of this shape, and serve to show how complete is our stock.

IRON TEES

The following sizes have just arrived in our warehouse :

$1 \times \frac{1}{4}$, $1\frac{1}{4} \times \frac{1}{4}$, $1\frac{1}{2} \times \frac{1}{4}$, $1\frac{3}{4} \times \frac{1}{4}$, $2 \times \frac{1}{4}$, $2\frac{1}{2} \times \frac{3}{8}$ in.

ANGLE IRON

The stock on hand at present comprises the following sizes :

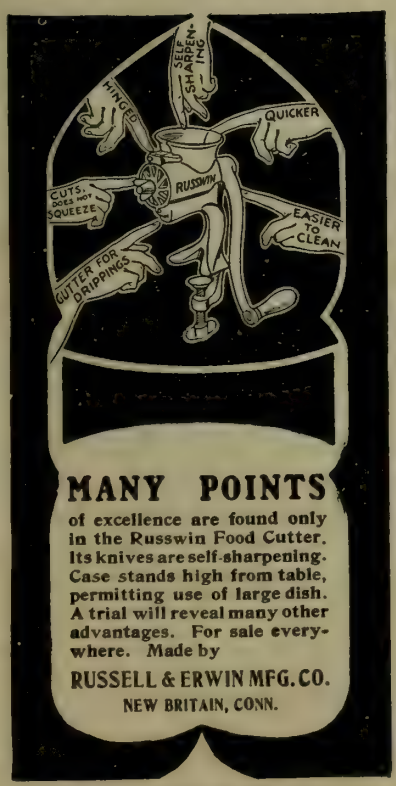
$1 \times \frac{5}{16}$, $1\frac{1}{4} \times \frac{5}{16}$, $1\frac{1}{2} \times \frac{5}{16}$, $1 \times \frac{1}{4}$, $1\frac{1}{4} \times \frac{1}{4}$, $1\frac{1}{2} \times 1\frac{1}{4}$, $1\frac{3}{4} \times \frac{1}{4}$ in.
$2 \times \frac{1}{4}$, $2 \times \frac{3}{8}$, $2\frac{1}{2} \times \frac{3}{8}$, $3 \times \frac{3}{8}$, $4 \times \frac{1}{2}$ in.

Always on hand the largest stock of Iron and Steel in Montreal.

Frothingham & Workman, Limited

Wholesale Hardware and Iron Merchants, - - - Montreal, Canada.

For 96 Years Sellers of Hardware.



MANY POINTS

of excellence are found only in the Russwin Food Cutter. Its knives are self-sharpening. Case stands high from table, permitting use of large dish. A trial will reveal many other advantages. For sale everywhere. Made by

RUSSELL & ERWIN MFG. CO.
NEW BRITAIN, CONN.

—FOR SALE BY—

The KENNEDY HARDWARE Co., Limited
49 Colborne St., TORONTO, Ont.

ANY FISH CAN FLOAT DOWN STREAM; IT TAKES A LIVE ONE TO SWIM UP.

WE ARE ALIVE; AND OUR INVITATION TO YOU IS

Get in the Swim

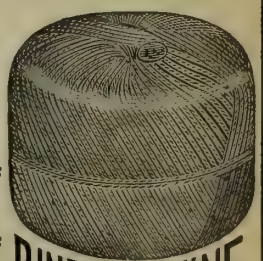
WITH

OUR ARMY OF SATISFIED CUSTOMERS

WHO SELL



Gilt Edge *650 ft.*
Gold Leaf *600 ft.*
Silver Leaf *550 ft.*
Maple Leaf *500 ft.*



BINDER TWINE.

Trade Mark, Registered.

Best in Quality.
Product of Canadian Industry.
Leading in Popularity.

ORDERS AND ENQUIRIES RECEIVE PROMPT ATTENTION

The Brantford Cordage Co. Limited
BRANTFORD, ONTARIO

Canadian Oil Gusher

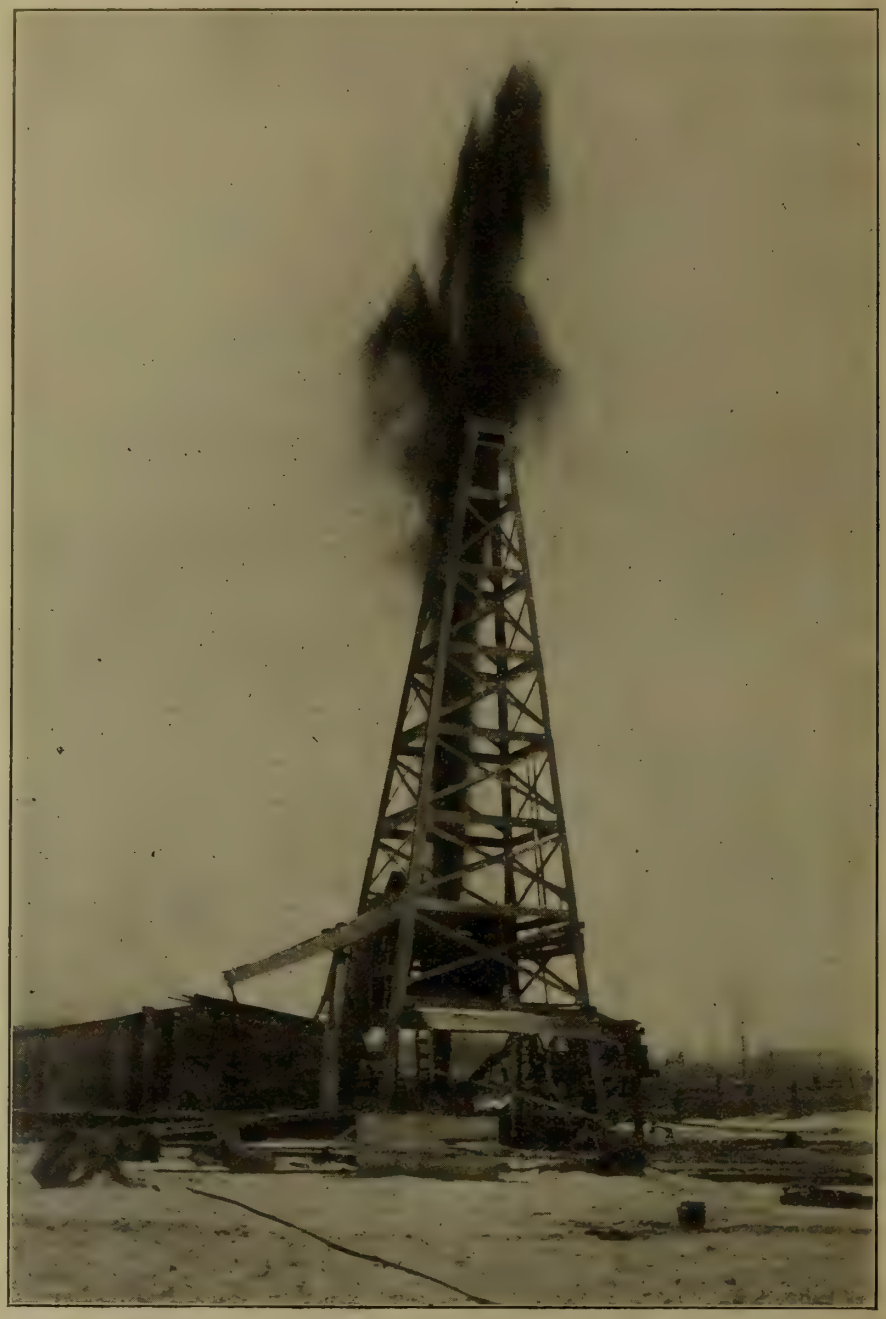
Oil Well Cables

Sand Lines

Sucker Rod Lines

Torpedo Lines

Bull Ropes



Oil Well Cables

Sand Lines

Sucker Rod Lines

Torpedo Lines

Bull Ropes

THIS WELL WAS BORED WITH ONE OF OUR CABLES.

Consumers Cordage Co., Limited

MILLS: MONTREAL and HALIFAX.

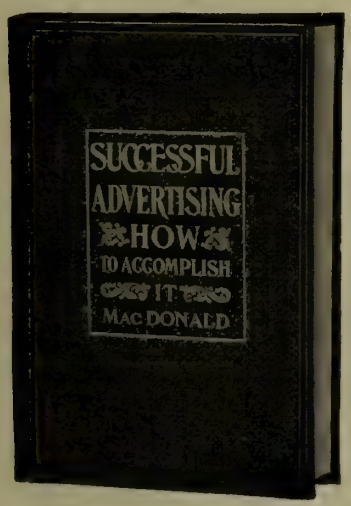
BRANCHES:

W. A. C. HAMILTON, Toronto, Ont.; MERRICK, ANDERSON & CO., Winnipeg, Man.; F. H. ANDREWS & SON, Quebec, Que.; MacGOWAN & CO., Vancouver, B.C.; CONSUMERS CORDAGE CO., Limited, St. John, N.B.; GEO. WOOD, London, Eng.

SUCCESSFUL ADVERTISING

How to Accomplish It

By J. ANGUS MacDONALD



Competent critics have recognized this as the **Best Book on Advertising** yet published. It is a PRACTICAL work for advertisers and business men.

The *Brooklyn Eagle* says of Successful Advertising :

"Advertising is one of the biggest businesses—perhaps the biggest business—in the world. To treat of it comprehensively is as difficult as to treat comprehensively of military strategy or the making of a newspaper. Mr. MacDonald has succeeded. He has produced an admirable and exhaustive monograph.

"Perhaps the deepest pitfall into which an author might fall in writing upon such a subject as this is too much theory and not sufficient practicality. Most happily has Mr. MacDonald avoided this chasm: he writes from practical experience in the field, and his methods as presented have been given the thorough tests of time and circumstances.

"Any one with even a superficial knowledge of advertising cannot but perceive that in the many examples shown are evidenced a thorough knowledge of the subject and a businesslike and practical grasp of advertising which is far removed from the light, airy and entirely impractical and hare-brained stuff which is not uncommon in literature treating of the subject of advertising."

The General Advertiser, The Retail Advertiser, The Advertising Writer, The Mail Order Advertiser will find this work invaluable. The price is out of proportion to its worth. Cloth bound. 400 pages.

Postpaid $2.00 per copy

The MacLean Publishing Co. Limited

TORONTO MONTREAL WINNIPEG



Steel Frame Support.

DAVID MAXWELL & SONS

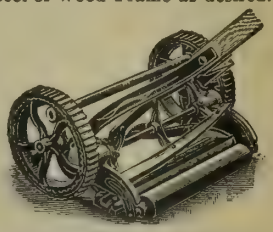
ST. MARYS, ONT., CANADA.

"Maxwell Favorite Churn." PATENTED FEATURES: Improved Stee Stand, Roller Bearings, and Foot and Hand Lever Drive, and Detachable Driving Link. Improved for season of 1904. Steel or Wood Frame as desired.

Lawn Mowers. High and Low Wheels, from 12 in. to 20 in. widths. Cold Rolled Steel Shafting, Crucible Steel Knives and Cutting Plate.

If your Wholesale House does not offer you these articles

SEND DIRECT TO US.



MAXWELL MOWER

8-in. Low Wheel.



Wheelbarrows. In Four Different Sizes.

J.C.M.

Galvanized Sheets for Corrugating are best. Submit your enquiries by mail or cable to

RD. JOHNSON, CLAPHAM & MORRIS, Limited
MANCHESTER, ENGLAND



SHOW CABINET

Given away free with an order for

Three Half-Dozens Razors as Illustrated Above

May be procured through

All Leading Wholesale Hardware Firms

RETURNED AUG 15 19

Sort Up Your Stock

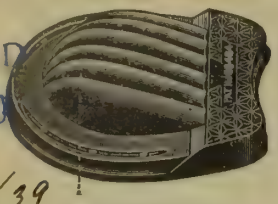
Ever Think of **HORSE SHOE PADS** as a Stock Line?



Summer days are here. Horse Shoe Pads sell on sight these out-door months of June, July and September. Write any of our Sales Branches for illustrated descriptive literature on our full range of Horse Shoe Pads. :: :: ::

THE CANADIAN RUBBER CO. OF MONTREAL. TRADE MARK

Look for this Trade Mark on every Pad.



See that Cushion?

It fills with air at each step.
That's what breaks concussion.
That's what prevents slipping.
That's what keeps the foot healthy.
That's what cures lameness.

Horse Shoe Pads lengthen the life of a good horse ; improve a poor horse 50 per cent.

Sales Branches and Warehouses:

172 Granville St., Halifax, N.S. | Imperial Bank Building, Montreal, Que. | Front and Yonge Sts., Toronto, Ont. | 89 Princess St., Winnipeg, Man. | 403 Cordova St., Vancouver, B.C.

THE CANADIAN RUBBER Co OF MONTREAL.

LIMITED



Enameled Preserving Kettles

WILL BE IN DEMAND NOW

Our brands, "ONYX," "DIAMOND" and "PEARL" Wares will satisfy the most critical patrons. Our stock is complete and we can ship promptly. Send us your orders.

KEMP MANUFACTURING CO., TORONTO, ONT.

THE KEMP MFG. AND METAL CO., LIMITED,
McDermot Ave. East, Winnipeg, Man.

THE KEMP MFG. CO. OF MONTREAL,
58 McGill St., Montreal, Que.

MODERN MANUFACTURING PLANT IN MONTREAL

WORK is progressing very rapidly on the new plant of the Canada Car Co., in Montreal, and the power house is now completed and the structural steel work finished; so that it is expected to have the entire plant in operation towards the end of Summer.

This company was organized last year with a capital stock of $3,000,000, the officers being W. P. Coleman, president; N. S. Ruder, assistant general manager; James Coleman, superintendent; E. G. M. Cape, consulting engineer, R. B. Edwards, auditor; all of whom are well known in the business and financial world. It is intended to carry on the manufacture of freight and passenger cars on an extensive scale, and already contracts have been taken, the filling of which will keep the plant running full capacity many months.

Ground was first broken in September last. The weather proved most favorable to any out-door undertaking, and the result was that the contractors were enabled to finish the foundations before severe weather set in. The work was done by D. G. Loomis & Sons, Sherbrooke, who had a large gang of men at work, thus taking advantage of the favorable weather. The concrete foundations rest on a bed of gravel, varying from four to five feet, which in turn rests on two or three feet of black sand. The closest inspection this Spring failed to reveal any flaw or defect in the concrete work, although the Winter was unusually severe.

General Lay-out.

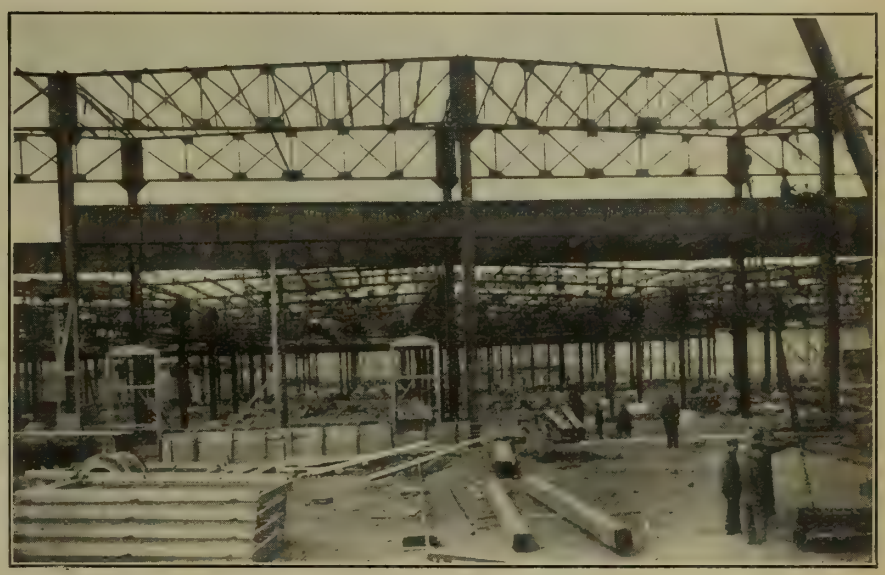
The property acquired by the company comprises fifty acres, bounded on the north by the Grand Trunk tracks and on the south by the Lachine Canal, just west of Cote St. Paul, affording excellent transportation facilities.



End View, Group 1—Canada Car Co.'s Plant.

The buildings are divided into two groups, which include the manufacturing departments proper. The offices, power house and store house are separate. Group one includes the planing mill, matching room, cabinet, pattern and carpenter shops, trimmers aad upholsterers, car erection, wheel, axles, truck and bolster shops, as well as the paint shops and tin departments. In group two, are the machine shop, brass foundry, forge and smiths' shop, gray iron foundry and wheel foundry. In the design and construction of these shops, the point kept in constant consideration was to produce the completed cars with the least possible handling of material. Everything pertaining to the makeup of a car will be manufactured; and the capacity of the works when completed will be very large. The arrangement is such as to admit of further extensions at any time. The floor area of the various shops is as follows:

	Feet.
Machine shop	129 x 70
Brass foundry	86 x 70
Forge and smith shop	301 x 70



Side View, Group 2—Canada Car Co.'s Plant.

Gray iron foundry	215 x 70
Wheel foundry	215 x 184
Planing mill	387 x 70
Matching room	236 x 70
Cabinet, pattern shop and carpenters' department	236 x 70
Trimmers' and upholsterers' shop	172 x 70
Freight car erection shop	301 x 70
Passenger car erection shop	301 x 70
Wheel, axle, truck and bolster shops	301 x 70
Passenger car paint shop	301 x 70
Freight car paint shop	322 x 70
Store house	120 x 80

Construction.

The contract for building the larger group was given to C. E. Deakin, of Montreal, and the other to the Forest City Paving Co., who successfully completed the power house during the Winter. The construction of these buildings is proceeding with all possible speed, the work being under the supervision of Mr. E. G. M. Cape, consulting engineer for the company. What has been accomplished within the past few weeks towards that end, is shown by the illustrations. Although there is a great deal of timber visible, but a small amount will go to make up the completed struc-

tures. Steel and concrete are the principal materials used. The foundations and walls are entirely of concrete, with steel skeleton work throughout, the roof being of wood covered with felt and tar and gravel. While several round houses and smaller buildings have been erected in Canada with concrete walls, the Canada Car Co. is the first industrial establishment to adopt this method. It has been generally believed that concrete construction could not be carried on with any degree of success during the colder spells of our Canadian climate. That this idea is without foundation has been demonstrated during the past Winter in building the power house of the plant which is now completed and receiving its machinery. Often at a temperature of twelve degrees below zero work was carried on. Snow and cold weather hindered the contractors greatly and added very much to the expense of building, but the work was continued and completed before the arrival of warm weather.

The method employed in building the walls consists in using a form made of two-inch dressed lumber, sufficiently stiffened that no bulging or warping could occur. Heavier forms were used in building the power house walls; here the water was heated and the gravel heated, and on being put in place was covered with burlap and manure for forty-eight hours. This gave the materials a chance for an initial set, and it was found that after that the severest frost effected no injury. At present no heating of materials is required. The forms on being removed leave the wall almost perfectly smooth. On being rubbed down they are given a coating of one to two mixtures, leaving a fairly smooth surface exposed. In adding successive layers the top is roughened with a pick and wet, so that the new concrete forms a perfect union with the part already built.

Four concrete mixers are kept constantly at work and these supply about forty yards each a day. For this work the company was particularly fortunate in getting a superior class of gravel. The cement used was required to comply with the specifications set forth by the Canadian Society of Civil Engineers.

The structural steel work has been supplied by the Dominion Bridge Co., for the riveting of which pneumatic riveters were used, being supplied with power from air compressors on the grounds. One feature of the steel work, which is otherwise of the ordinary form, is the use of trussed purlins, which save about fifty per cent. of the weight of the material.

Machinery.

The general scheme of the machinery installation has been worked out, but the allocation of individual machines has not yet been decided. Electricity has been adopted for motive power and individual drive will be used wherever practicable, induction motors supplied with energy from the power house being installed. Electric cranes are being placed in all the buildings, and compressed air will be used wherever required.

In keeping with other up-to-date methods employed by the firm to have a plant of the most modern type, it was decided to instal steam turbines in the power house and the Curtis turbines now being completed for the company will be the first of their kind to be operated in Canada.

The power house is built entirely of concrete, one hundred and fifty feet four inches long, by eighty-five feet wide, divided in the centre by a nine-inch concrete wall. At the north end is a hundred and fifty foot chimney of brick structure on concrete foundation. Six boilers, Babcock & Wilcox type, each of three hundred horse-power, with a working pressure of two hundred pounds per square inch have been installed in three batteries. These are provided with super-heaters to give a super-heat of one hundred and fifty degrees. Additional space has been allowed for two extra boilers. In the engine room, which is shown in cross section in the diagram, will be installed a complete generating plant consisting of two 500-k.w. turbo-geñerators, manufactured by the Canadian General Electric Co., and all the necessary auxiliary machinery for running the plant, either condensing or non-condensing. The system is designed so that in Winter the exhaust steam instead of being condensed will be used for heating the entire plant by direct radiation. The auxiliary machinery is supplied by the following firms: The condensing plant and boiler feed pumps, by the Alberga Condenser Co., New York; the fire pumps, two in number, each of 1,000 gallons per minute capacity, by the Buffalo Steam Pump Co., Buffalo; the feed water heater of 2,000 h.p., and the centrifugal single stage turbo pump, also of 1,000 gallons per minute capacity, by the John McDougall Caledonia Iron Works; the step bearing pumps for supplying water at a pressure of 300 lbs. per square inch to the turbo-generators and the oil pumps, also for the generators, are supplied by the Canadian General Electric Co. There is also a cross compound Corliss air compressor for distributing air to the several buildings at 100 lbs. pressure per square inch, supplied by the Allis-Chalmers-Bullock, Limited.

The feature of the condensing plant is the ideal system of getting cooling water from the canal, which is several feet higher than the power house and circulating by gravity through the surface condenser and discharging into a large tank in the power house which has an overflow to a drainage canal, which also runs close to the power house. Thus the necessity of having circulating pumps is entirely done away with.

The centrifugal single stage pump discharges water into an elevated tank of 75,000 gallons' capacity, which supplies water to the sprinkler system and other fire protection arranged around the buildings, also supplying water for mill purposes. In the engine room there is a 10-ton traveling hand crane supplied by the Niles Co.

The plant, which is entirely self-contained, will manufacture everything from the raw material, lumber and steel. Its initial capacity will be about ten passenger cars per month and twenty freight cars per day, with their corresponding trucks. While wooden cars will be the first product, provision is being made to manufacture composite wood and steel, and all steel cars, pressed steel or structural shapes, street cars and special type of trucks and bolsters, and other specialties uned in car building.

GUTTA PERCHA CO. EXPANDS.

A RECENT move of considerable interest is that of the opening of a branch in London, England, by the Gutta Percha & Rubber Co., who have recently had new factories constructed in Toronto. For several years the company have been represented by a firm in Edinburgh, but so large has their British trade grown that a branch house has become a necesity, premises being secured at No. 1 Finsbury square, London.

For the present the company's attention will be confined to the sale of rubber footwear their "Maltese Cross" and "Sun" brands being well known in all parts of the world. Three lines of rubber heels, known as "Maltese Cross," "Sun" and "Victor," are also manufactured of high-grade rubber, well calculated to give satisfaction to users.

The English branch was established under the supervision of Mr. R. H. Greene, manager of the shoe department of the company, Mr. C. E. Pillinger, late of the European depot of the United States Rubber Co., being secured as manager of the branch. It is the intention to cultivate the wholesale trade only.

MAY'S IRON OUTPUT LARGER.

Pig iron production in May, contrary to expectations, was 45,545 tons greater than in April, owing to the heavier output of the steel companies. There was, however, some falling off in the capacity operating on June 1, and as further reductions have since taken place, the outlook for June is not so promising. Stocks during the month increased 63,000 tons.

The output for the year, by months, compares as follows:

	Gross tons.
May	1,922,041
April	1,922,041
March	1,936,264
February	1,597,343
January	1,781,847
December	1,616,007
November	1,486,605
October	1,445,270
September	1,357,842
August	1,172,745
July	1,120,819
June	1,295,739

In May, 1903, the output was 1,713,614 tons, until March, the maximum output on record.

The weekly capacity of the active furnaces were 10,039 tons smaller in May than in April.

WIRE NAILS
TACKS
WIRE

Prompt Shipment

The ONTARIO TACK CO.
Limited.
HAMILTON, ONT.

CATALOGUES, BOOKLETS, ETC.

When sending catalogues for review, manufacturers would confer a favor by pointing out the new articles that they contain. It would assist the editor in writing the review.

Improved Gas Brackets.

MESSRS. INGRAM & KEMP, LIMITED, of Birmingham, England, have sent us sample sheets of their full range of swivel-joint gas brackets made with their protected solid rod joints. After having had over two years' experience in their new method of making these brackets, they feel assured of a successful future for this class of work. They are bored from the solid rod, with the result that a long bearing in the barrel is given. Moreover, the joints are free from sand-holes, and there is also no chance of loose sand (left in the casting from the core) working down into the bearings. The swivels and thumb-plugs work free and smoothly, and are gas-tight without grease; so that the brackets are well adapted for use with acetylene. Although these brackets are lighter in appearance compared with cast joints they are said to be very much stronger, owing to the toughness of the metal from which they are made, and the gas-way drillings being only of sufficient size to allow for the passage of gas. Another feature is a steel-wire pin, screwed tightly into the body, in place of the brass pin pushed into the plug, which is liable to fall out. The brackets should commend themselves to the trade managers, particularly in connection with slot-meters—more especially as the price compares favorably with that of brackets made from castings. Mention Hardware and Metal when asking for sample sheets.

Heating Goods.

The Pease Walden Co., Limited, of Winnipeg, have sent Hardware and Metal their "Catalogue A," describing their "Florence" steam boilers and water heaters, and also a neat little booklet describing their "Economy" furnaces. Both are handsomely illustrated and give the information required in neat compact form. Copies will be sent to any dealer writing for one and mentioning this paper.

Superior Firearms.

Harrington & Richardson Arms Co., Worcester, Mass., are supplying the trade with a well-printed booklet of 22 pages and cover, all their lines of firearms being finely illustrated and briefly described in the book. Their automatic single guns and revolvers are thoroughly up-to-date, and members of the trade who have not secured a copy as yet should send for one at once, mentioning this journal when the request is made.

Fan Motors.

Westinghouse 1905 alternating current fan motors are handsomely illustrated and tersely described in a neat and beautifully-printed booklet of envelope size, recently issued by the Canadian Westinghouse Co., Limited, Hamilton, Ontario. The topic is timely, and all dealers who can place this air-cooling apparatus in some of their customers' offices or houses should send for copies of the booklet, mentioning Hardware and Metal when writing.



Specialties in Brassware.

Edwards & Barnes, Birmingham, England, have sent Hardware and Metal a copy of their new catalogue of stamped brassware and specialties, together with a fly sheet showing their latest and most popular lines. A feature of the book, which comprises about 72 pages and cover, and contains hundreds of illustrations, is the brass holder attached to the cover. The lines illustrated are too numerous to enumerate, but we would advise any hardware jobber to send for a copy of the catalogue, as the firm is desirous of opening up a large Canadian business, and offers fair inducements to Canadian buyers. Mention Hardware and Metal when writing the firm.

Ideal Power.

Compressed air and pneumatic tools are written about interestingly in the June number of Ideal Power, published at 1508 Fisher Building, Chicago, copies of which can be secured on request if Hardware and Metal is mentioned when the request is made.

Lawn Mowers.

While the season for lawn mowers is nearly over there is still a large trade to be done in repairs, and any dealer who has not a copy of Catalogue "C" issued by the Taylor-Forbes Co., Guelph, should secure one at once. Repair work is given considerable space, each part being

illustrated and numbered, the "Woodyatt," "Star," "Daisy," "Philadelphia," "Empress," "King Edward" and "Ontario" brands all being described. If the name of this paper is mentioned a catalogue will be sent on request.

The Clauss Primer.

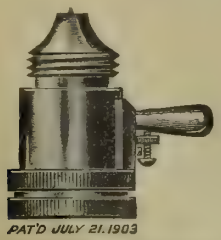
An interesting Alphabetical Primer has been issued to advertise Clauss shears, and as the form of advertising is exceedingly novel every hardware merchant should secure copies, they being available on request if this journal is mentioned. The Queen City Cutlery Co., Spadina avenue, Toronto, are the Canadian representatives of the Clauss Shear Company, whose head office is at Fremont, Ohio.

Fine Pump Catalogue.

The Ontario Wind Engine & Pump Co., Toronto, have just issued an up-to-date illustrated catalogue, which is very complete, setting forth the various lines manufactured by them. The book comprises 96 pages and cover and is nicely illustrated. A copy will be sent to anyone writing to the firm and mentioning this paper. The Ontario Wind Engine & Pump Co.'s goods are still finding favor abroad, they having received, by recent mail, an order from the British Government for one of the Crown colonies for 15 complete Canadian air-motor outfits. This patronage by the Imperial Government is sufficient warranty of class of goods turned out by this firm, and it certainly reflects credit on the country.

A NEW GAS BURNER GOVERNOR.

IN view of the desirability of regulating the flow of gas both for economical purposes and to improve the character of the lighting, particularly when burned under incandescent mantles, the Frederick Elder Co., Pittsburg, Pa., have put on the market the device shown in the accompanying illustration, the invention of Mr. Frederick. It will be noted that it consists of a needle valve operated by means of a lever of the ball type from the outside, the use of the ball joint insuring its



New Gas Burner Governor.

tightness and preventing leakage of gas. A little set screw draws a plate down over the ball from the outside, so that in case of wear the looseness may be taken up and the tightness of the ground ball joint continued indefinitely. This provision for preventing leakage at the movable point should secure a popularity for this method of controlling the gas outlet for any kind of gas burners. The claim has been made that when the ordinary gas burner is turned down low, the flame gives no indication of the amount of gas passing, and that there is less economy than the operators assume. With the needle valve governor, however, the quantity of gas passing can be regulated to a certainty, and a small flame will mean an extremely small consumption. The International Gas Appliance Co., 27 Richmond street west, Toronto, are handling the goods in Canada.

There are **HAMMERS** *that "Knock," and there are* **HAMMERS** *that convince. We employ the convincing kind; for instance, we say contact with the Hammer will not discharge an*

IVER JOHNSON REVOLVER

And then we use our **HAMMER** *just to demonstrate the truth of our assertion. We call this a convincing argument, not "Knocking."*

Hammer the Hammer



Send for literature.

IVER JOHNSON'S ARMS & CYCLE WORKS,
FITCHBURG, MASS.
New York Office: No. 99 Chambers Street.

ELECTRICAL NEWS.

The electric lighting plant at Windsor will be remodeled and enlarged at a cost of $30,000.

* * *

The Town of Dauphin, Man., have voted favorably on a by-law to raise $35,000 for a fire hall and an electric light plant.

* * *

The British Columbia Telephone Co. are rebuilding their line from Cascade to Phoenix, B.C.

* * *

The McLeod Electric Light & Power Co. have installed an electric plant at Coleman, Alta.

* * *

A new electric light and power plant will probably be erected at Collingwood, Ont., at a cost of about $35,000.

* * *

The Manitoba Iron Works Co., Winnipeg, have installed a complete electric lighting plant in the T. A. Garland Co.'s store, at Portage la Prairie.

The Ingersoll Water Works Co will substitute electric for steam power at the pumping house, the current to be obtained from the Ingersoll Electric Light & Power Co.

* * *

The British Columbia Construction & Distribution Co. have been incorporated at Victoria, B.C., with a capital of $25,000, to produce electricity for light, heat, and power purposes, etc.

* * *

The Canadian General Electric Co., Toronto, have supplied the machinery for the electric light plant now being installed at Bankhead, Alta., for the purpose of lighting that place and Banff, Alta.

* * *

The Board of Commissioners of the Temiskaming and Northern Ontario Railway Co. have decided to inaugurate a Government-owned telephone system for the entire length of their railway.

* * *

A power house will be erected in connection with the Canadian Pacific Railway Co.'s hotel now under construction at Victoria, B.C. An ice-making plant and a high pressure pumping plant will be installed.

* * *

The Canadian General Electric Co., Toronto, are installing a new marble switchboard, with instruments and apparatus, necessary for 2,200 volt operation, and also an 800 gallon per minute turbine pump direct connected to an 80 h.p. induction motor in the Sudbury electric lighting plant and water works.

H. S. HOWLAND, SONS & CO. LIMITED

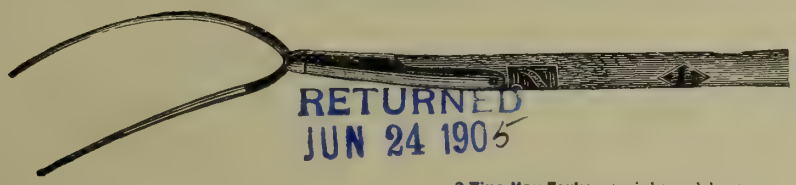
HARDWARE MERCHANTS

Wholesale Only

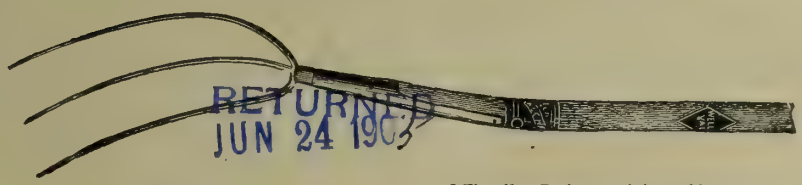
138-140 WEST FRONT STREET, TORONTO

Only Wholesale

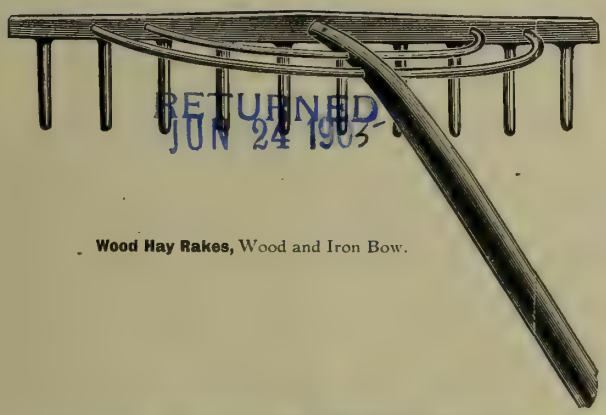
HARVEST TOOLS



2 Tine Hay Forks, straight and bent.



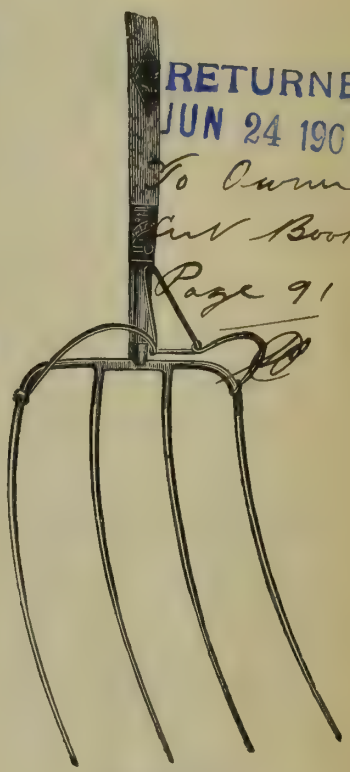
3 Tine Hay Forks, straight and bent.



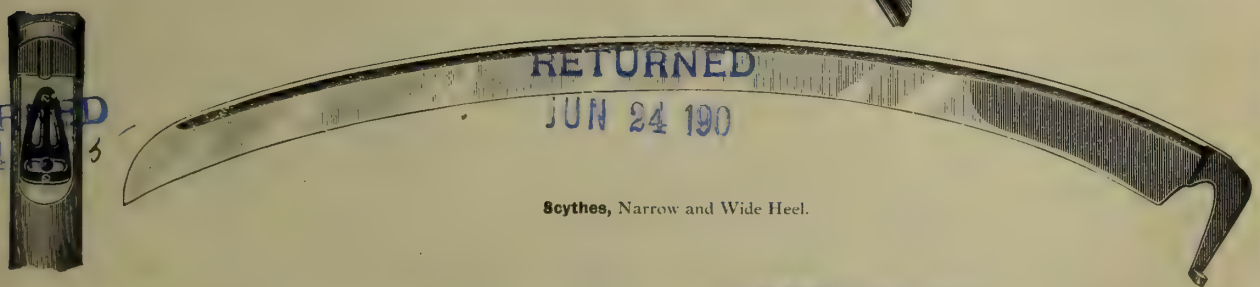
Wood Hay Rakes, Wood and Iron Bow.



Straw Forks
3 and 4 Tine



Barley Forks
With and without Guard.



Scythes, Narrow and Wide Heel.

00 Loop and Patent Swing Socket.



Double Ring Bush Scythe.



No. 3 Drive Ring.



No. 2 Drive Ring.



No. 1 Drive Ring.



3 Loop and Solid Plate.

H. S. HOWLAND, SONS & CO., LIMITED, Toronto.

We Ship Promptly.

GRAHAM NAILS ARE THE BEST.

Factory: Dufferin Street, Toronto, Ont.

Our prices are right.



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Porcelain Enamel Bath Tubs Lavatories Sinks Slop Hoppers

"MADE IN CANADA."

Write us at once if you want to secure

A CATALOGUE

of the latest designs of **Porcelain Enamelled Bath Tubs, Sinks, Urinals, Latrines, Etc.**

Now ready for distribution and will be mailed on application.

THE ONLY MANUFACTURERS OF ENAMELLED WARE IN CANADA

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A Refreshing Cool Shower in the morning.

We have Shower Rings from One Dollar up and Showers with Rubber Curtain complete like one in cut from $15.00 up.

Put a sample up in your store—they're seasonable goods. A screw-driver all that's required to place in position.



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Engineers' Goods and Steam Specialties

Valves, Cocks, Injectors, Steam Gauges, Lubricators, Grease Cups, etc. Iron and Brass Pipe and Fittings.

Pipe cutting to sketch.

The James Morrison Brass Mfg. Co., Limited, - Toronto

HEATING AND PLUMBING

PLAIN TALKS ON PLUMBING, HEATING AND VENTILATION

A Series of Practical Articles Written in Plain Terms, Devoid of Technical Phrases, Algebraical Signs, etc., so as to be Easily Understood by all Interested in these Subjects.

By M. J. Quinn, Mechanical Superintendent for the Ontario Government.
[Registered in accordance with the Copyright Act]

Article VII.

STEAM HEATING.

IN our last article we were dealing with the "two-pipe gravity" system of steam heating, and among other things we tried especially to make plain the fact that great care must be taken to prevent under any circumstances the accumulation of water in the steam main or any of its branches; and further, that the lower ends of every return and relief riser ought to be below the water line, so that, being submerged, steam could not get into the radiators through the wrong pipe.

Regarding both of these points, we think it wise to discuss them again briefly, so that some difficulties which will from time to time be met with by the fitter may be overcome.

First, then, let us deal with the steam main. We said in our last article that it "must have a continuous decline from the boiler to the extreme end of the system," and this can be readily understood and applied where the main is a short one, or of even fair length; where, for instance, it is, say, twelve inches from the basement ceiling at the boiler, and runs a distance of one hundred feet, it would be about twenty inches below the ceiling at the extreme end, which, in a fairly high basement, would perhaps not be objectionable.

But suppose it had to run two or three hundred feet, and there were reasons why it must be kept within a certain distance of the ceiling, as, for instance, if it had to be kept above the tops of doorways, etc., then it follows that other arrangements must be made if it is to have a proper grade, and still remain sufficiently close to the ceiling.

In such a contingency the only and proper method to be adopted is that shewn in Fig. 1, in which the boiler is shewn at the extreme end of a building, and the piping system extending to the other end.



Fig 1

In putting in a steam main under the conditions already referred to, it is simply graded downward until it has reached the lowest level which it may touch, and there turned straight up to a point as close to the ceiling as possible, from which point it again declines slowly, until it once more reaches its lowest level, when it is again turned up, and so on until the extreme end of the main is reached.

At every point where the main is turned up there must be placed a relief or "drip" which will conduct all of the condensation flowing toward it, down to the main return pipe running along the floor.

The next point to be dealt with is that of submerging the ends of the return risers and drips, where they cannot be run below the water level in the boiler. In Fig. 2 may be seen an example of this difficulty and the means by which it is overcome.

It will be noted that the passage through which the main and return are run is considerably above the level on which the boiler is placed, and hence the greater part of the return main is above the "normal water line," and would, if not prevented by special fitting, simply empty itself down to that level.

It will be seen, however, that instead of turning down directly from the upper passage to the lower level, on which the boiler is placed, it first turns up some distance and then down to the lower level, thus forming a "trap," or what is known to the trade as a "false" or artificial water line, the condensation filling the return main and all of the return risers and drips up to the dotted line marked "artificial water line."

From the top of the fitting which creates the "artificial water line" is taken a pipe which is directly connected with the steam main, and, of course, having a proper valve, and which is called an "equalizer," the object of this connection being to prevent the water contained in the artificial water line from being syphoned over to the boiler side, by exerting an equal pressure of steam on the top of both the "artificial" and "normal water level."

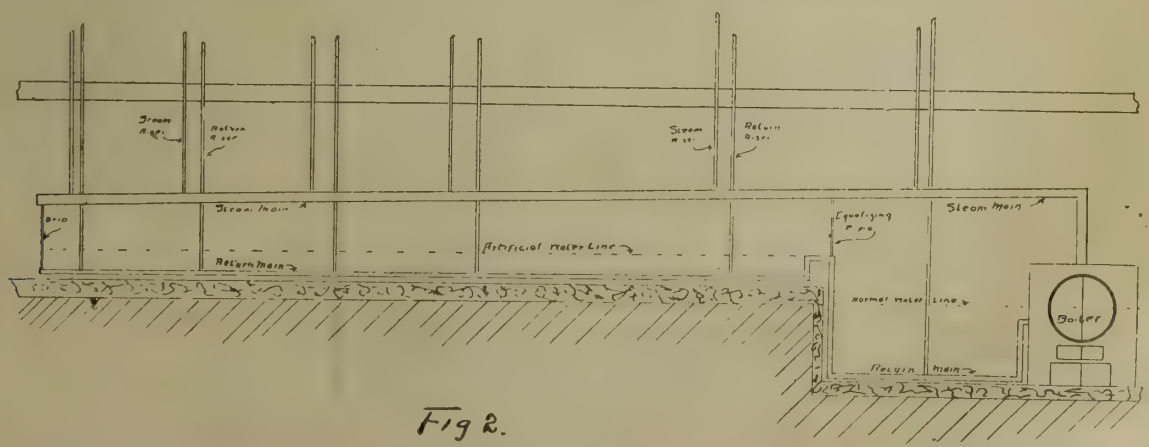


Fig 2.

While the work shown in the illustration is for a large section of a system, the same principle holds good, no matter how small or large the number of radiators affected.

The question of providing for expansion has before been referred to, and is one which, particularly where long steam mains are necessary, must receive careful consideration on the part of the fitter, otherwise the immense power so exerted will cause him a great deal of trouble.



Packing Room, Eastern Division, H. Mueller Mfg. Co.

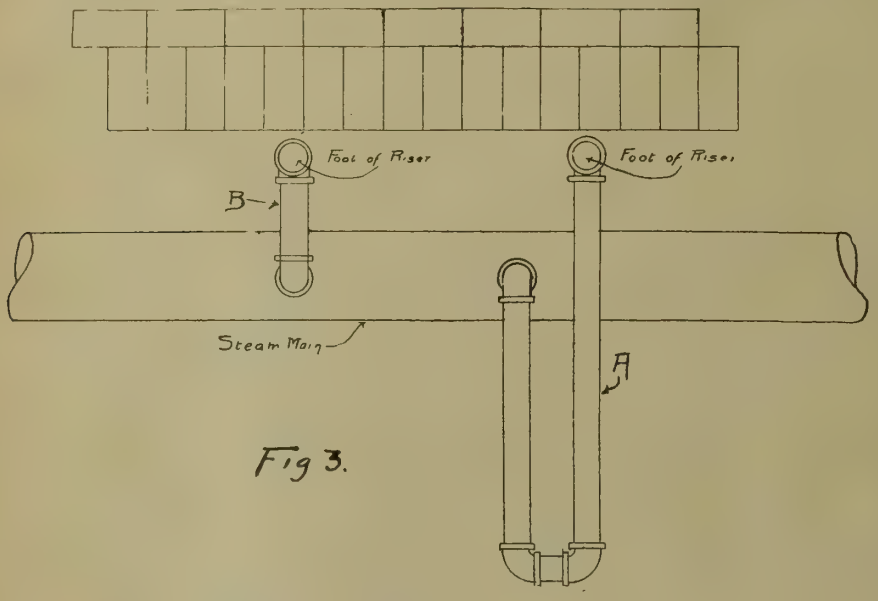


Fig 3.

We showed in our last article on "steam heating" how ordinarily expansion is provided for in [illegible] small work, viz., by having fairly long connections between the steam main and the riser, but where, as in Fig. 3, at "B," the connection between the main and the riser is a close one, the movement of the main due to expansion and contraction is almost certain to cause trouble.

In such a case a very good arrangement is shown at "A," where, as will be apparent, the main may move in either direction some little distance, before a great strain is exerted on the connections, and, in addition, such a connection as that shown at "A" provides for the necessary expansion and contraction in the riser line up to the first floor level, while with a rigid connection such as that shown at "B," where no downward movement is possible, the radiator connected to the top of the riser would be raised off the floor whenever the riser was heated, that is, provided some fitting did not break instead.

MUELLER CO.'S NEW YORK BRANCH.

AFTER several months' preparation the H. Mueller Mfg. Co. have formally opened their eastern division at Nos. 254-258 Canal street, (cor. Elm), New York City, and are now extending invitations to their friends in the water, gas and plumbing trades to visit them in their sumptuous new business place.

The accompanying engraving shows their building to be one of the handsomest in the business district of New York. Canal street is the principal street extending east and west through the city, and Broadway is only a block away. Elm street, under which is located the great subway, is one of the principal streets leading to the Brooklyn Bridge. The building has a frontage of 61 feet on Canal street, and a depth of 63 feet on Elm street, having a total available space of some 10,000 square feet.

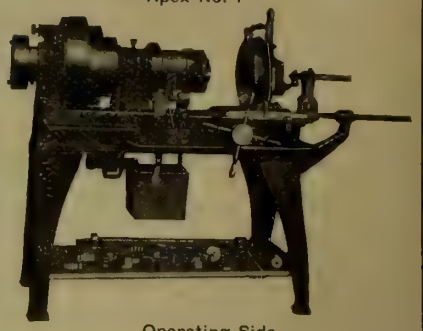
The magnificent exhibit which the company had at the St. Louis Exposition was moved to New York, and has been installed in their new eastern house The interior of the office has been furnished in an expensive manner to match the elegant antique furniture and beveled plate glass show cases used at the exhibit, and these, with rich tapestries



Office Interior, Eastern Division, H. Mueller Mfg. Co.

THE MERRELL NIPPLE and PIPE MILL MACHINES

Apex No. 1



Operating Side

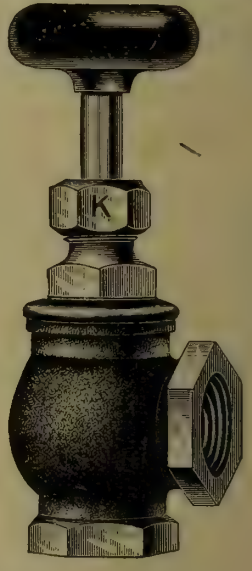
Unequalled for strength or speed. Threading Gauge works automatically, releasing chasers when desired length of thread has been cut. Capacity of machine from ¼ to 2 inches inclusive. Especially adapted for making nipples.

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THE CANADIAN FAIRBANKS CO. Limited

Sole Agents for Canada

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Kerr's Standard and Jenkin Disc Radiator Valves

are perfectly constructed, and of beautiful design. Like all "Kerr" Specialties strictly high-grade.

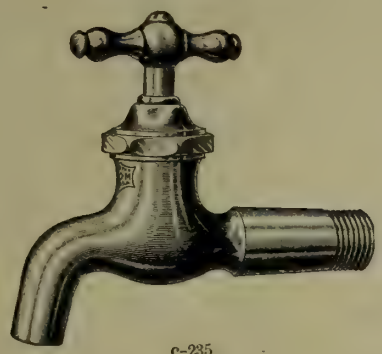
The KERR ENGINE CO., Limited

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WALKERVILLE, ONT., CANADA

MUELLER COMPRESSION WORK

SPECIAL GRADE BIBB



c-235

If the packing in a compression bibb is of material that will not hold a lubricant, it will bind the stem.

The packing in Mueller Compression Bibbs is a rubber composition with a cloth insertion that holds a lubricant indefinitely. It grips the stem firmly without binding.

Mueller Compression Bibbs are made in standard, extra and special grades, in plain or hose patterns, and in all styles of pipe connection. The bibb illustrated is the special grade, plain pattern and S. O. T. style. Each bibb is *unconditionally guaranteed.*

H. MUELLER MFG. CO.

DECATUR, Ill., U.S.A. NEW YORK, N.Y., U.S.A.



GET BUSY!

Now, after a long, severe and tedious winter, when summer is upon us and the weather is open, there will be lots to do and the plumber handling the NATURO Closet will have his hands full.

Architects are specifying the NATURO and, in spite of the fact that it is new, there is great demand for it.

Why?

Because it fills a long felt want; its convenience, its sanitariness, its proven value as a means to help keep the body in a healthy condition, all tend to recommend it to the profession and people generally.

You had better get in line!

Let us send you our descriptive literature.

THE NATURO COMPANY,

Salem, N. J.

C. H. Muckenhirn, President.

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OCT 6 1905

To Owner
Cat Book 41
page 28



Modern Plumbing Material

"STANDARD"

Our Art Booklets, which are free for the asking, show a most complete line.

PROMPT SERVICE. LOWEST PRICES.
VERY BEST QUALITY.

MECHANICS' SUPPLY CO.

80-90 St. Paul Street, Quebec

and tasteful minor furnishings, comprise one of the handsomest and most luxurious office suites of any in similar lines of trade in the east.

Besides convenience of access, the office has every facility for ventilation and light. For artificial illumination it is supplied with eight clusters of incandescent lamps mounted on carved pedestals high enough to diffuse light to every part of the room.

In the showroom are displayed samples of goods carried in stock. These comprise water main tapping machines, pressure regulators, brass water connections, lead goose necks, curb and corporation stop cocks, service boxes, service clamps, strainers and pipe line tools for water works use; gas main tapping machines, gas cocks, gas meter connections and gas relief valves for the use of gas plants; and hundreds of samples of ground key, compression and fuller work and tools for plumbers' use. The stock room is fitted with storage bins 8 feet high by

URNED
27 1905



Office Building—Eastern Division, H. Mueller Mfg. Co.

4 feet wide, and divided through the centre with heavy wire screening. This is a new feature in the construction of stock bins, the object being to attain a more perfect system of lighting and ventilation than is customary in the installation of work of this kind.

Mr. Oscar Mueller, the treasurer, and the youngest of the six sons comprising the firm, is the resident manager, and although a young man in point of years, he has had a business training that has fully equipped him for his important post. After finishing a course in mechanical engineering at the University of Illinois, he entered the drafting department of the works at Decatur, Illinois. From this position he was promoted to other and more important places in the shops and offices, being, in 1903, the factory business manager, and on account of the wide grasp of business which his varied responsibilities had given him, he was selected to represent his firm at the exposition. In this exacting and responsible position he proved courteous, affable, careful and resourceful, and his managerial abilities have been fittingly recognized in his selection to shape the destinies of his company's first branch house.

Mr. Tom F. Leary, for years the representative of the company in the central west, is the assistant manager. The territory covered by the new division comprises that east of the western line of Pennsylvania, and north of the southern line of Virginia. Included in it are the following salesmen, with headquarters: Charles Tillinghast, New York City; W. D. Malane, 20 Lincoln Place, Brooklyn; A. C. Pilcher, Heublin's Hotel, Hartford, Conn.; W. F. McCarty, Green's Hotel, Philadelphia, Penn.; C. T. Ford, 1408 Pennsylvania ave., Washington, D.C.; W. L. Dickel, Young's Hotel, Boston, Mass.; W. R. Hughes, 5711 Ripey street, Pittsburg, Pa.; Geo. A. Caldwell, Arlington Hotel, Buffalo, N.Y.; and Howard A. Garrard, New Falmouth Hotel, Portland, Me.

PLUMBERS ENJOY THEMSELVES.

AN attacking force, composed of about 90 members of the Toronto Master Plumbers' Association, raided Grand Island last Saturday and completely routed a similar force from Buffalo. The battle was fast and furious as long as ammunition and daylight lasted, when each side was forced to retire.

During the engagement a squad, led by Captain John Wright and composed of Messrs. K. J. Allison, third base; A. J. Richardson, pitcher; D. Menzies, catcher; W. Clewe, first base; J. R. Brown, second base; R. Wright, short-stop; J. E. Fullarton, right field; J. Elliott, left field; W. Benson, centre field; and W. Copping, umpire, took a Buffalo nine into camp, the fatalities being given out as 14 to 2 with Toronto at the long end. Quoits and bowling were also indulged in by plumbers from both cities.

A feature of the afternoon was the presentation of an umbrella to Mr. Daniel Lund, president of the Buffalo M.P.A., by W. H. Meredith, on behalf of the Toronto Association. As the day


RETURNED
JUN 27 1905
To Owner
our Book
Page 5

O. B. Mueller
Manager New York Branch, H. Mueller Mfg. Co.
Decatur, Ill.

was decidedly juicy in the Grand Island district the presentation was decidedly appropriate.

Mr. K. J. Allison, president of the Toronto Plumbers' Ball Club, soothed the feelings of the Buffalo ball players by presenting their captain with a handsome medallion on which was worked the Union Jack and Stars and Stripes set in maple leaves, the names of the two cities and date of the celebration being also engraved on the fob.

A similar good time is looked forward to at an early date when Buffalo will endeavor to avenge their defeat by taking the Canadians into camp in their own territory.

PLUMBERS' CONVENTION.

THE dates announced by Hardware and Metal last week for the National Association's convention in Winnipeg have been ratified and arrangements will now be pushed forward to make the event on Aug. 8, 9 and 10 a great success with delegates present from Vancouver to the Maritime Provinces.

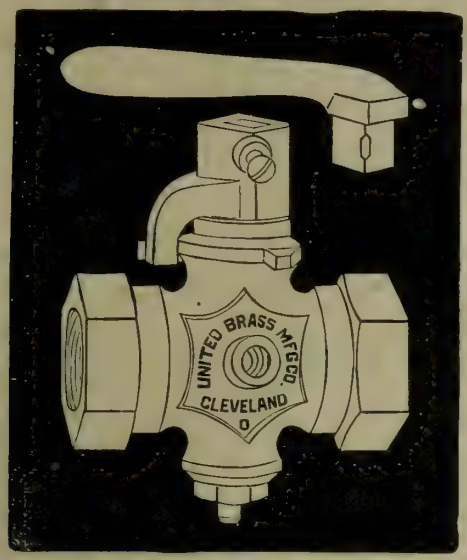
It has developed, however, that the westerner who visited Toronto last week and represented that the Winnipeg plumbers desired the change of date, had no authority from the Winnipeg Association. The date having been changed, however, the Winnipeg plumbers have fallen into line and will do their utmost to have a fine gathering. Arrangements are under way to secure, if possible, a single fare from the C.P.R. At present, however, the best rate quoted is a fare and one-third, unless 50 or more attend.

ENGLISH PLUMBERS' CONVENTION

THE tenth annual conference of the National Association of Master Plumbers was held on May 22 at Buxton, under the presidency of Mr. W. Jaffrey, of Manchester, about ninety delegates being present to represent the 1,400 members. The president said the

UNITED COCKS

Are Installed by LEADING PLUMBERS everywhere because THEY ARE THE BEST.



We Manufacture a Complete Line of High Grade

STOPS and STOP and WASTE COCKS, COMPRESSION WORK, FULLER WORK, SOLDERING NIPPLES, UNIONS, VALVES, ETC.

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CLEVELAND, OHIO, U.S.A.



DIAMOND-BRAND-FITTINGS

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The Oshawa Steam and Gas Fittings Co. Limited

Stocked by all Leading Wholesale Houses.

——— *SPECIALTIES* ———

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New York Philadelphia Chicago London, E. C.

association had succeeded in raising the standard of the plumbing done in Great Britain. Their numbers were increasing and they felt they possessed a power which they should exercise, although not in an offensive fashion. They felt that they ought to be acknowledged in connection with everything that concerned practical plumbing. They did not want to have so much done for them as some people seemed desirous of doing, but they desired to have a share in the making of such arrangements as affected them. Municipal authorities were inclined to take the associated plumbers more into their confidence and to acknowledge the power of the organization.

STEAM FITTERS' CONVENTION.

NINETY delegates attended the seventeenth annual convention of the National Master Steam and Hot Water Fitters' Association, at Atlantic City, June, 13, 14 and 15, this being the largest and most successful gathering in the history of the organization.

During the past year an organizer has been in the field, and as a result the membership has increased to 411. In the past the association has been very conservative and exclusive, the membership comprising only the cream of the heating trade, a large percentage being rated in six or seven figures in financial circles.

Heating engineers have held control of the association, and up to a year ago no effort had been made to increase the membership. Now, however, plumbers doing steam fitting work are being admitted, and the feeling in favor of progress is growing stronger, as is evidenced by a suggestion made in the president's address that in future it would be wise to arrange to have either joint conventions with the Master Plumbers' Association, or conventions arranged in the same city at near dates.

President Henry L. Hall, New York, presided, and the Canadian delegates are loud in their praises of his capacity as a presiding officer. His quiet and dignified manner, together with his promptness in giving rulings, won respect from the delegates, and although the chairman was decidedly firm the best of feeling prevailed and the business of the convention was conducted in a remarkably expeditious manner.

Resolutions were adopted admitting R. W. Harrison, of Toronto, and Benjamin Noble, of London, Ontario, who represented the Canadian Association of Master Plumbers, Steam and Hot Water Fitters, to all executive sessions of the convention, they being treated royally by their American cousins.

The Canadian delegates laid several questions before the convention, and after discussion the matters were referred to the incoming board of directors for action.

Much discussion took place on the question of refusing to give estimates to lump contractors, and the general feeling was that the time was ripe for action along this line. The trade in Boston had taken a decided stand on this matter and the reports of delegates showed the evil to be as great in other cities.

Other matters relating to trade protection were also discussed at length, the opinion of the Canadian delegates being asked on most matters taken up. The complete absence of a labor question rather surprised the Canadians, the policy of the association being to allow all matters of this nature to be controlled by the local associations. The election of officers for the ensuing year resulted as follows:

P. Gormley, Philadelphia, president.
C. A. Geohegan, New York, vice-president.
A. N. Chambers, New York, treasurer.
H. B. Gombers, New York, secretary.
Jno. C. F. Trachsler, Philadelphia, sergeant-at-arms.

Board of Directors—A. E. Kenrick, Brookline, Mass.; Jno. T. Sadler, Elmire, N.Y.; Henry L. Hall, New York; J. M. Healy, Indianapolis, Ind.; Geo. H. Zeller, Washington, D.C.

A feature of the convention was the large number of manufacturers and jobbers present, their numbers being even greater than the supply of delegates. The gathering provided an excellent opportunity for all to get well acquainted, as there were no evening sessions and no official social functions, this feature being left entirely in the hands of the delegates by the association.

It is probable that next year's convention will be held at Atlantic City, the week preceding the convention of the National Association of Master Plumbers in the same city.

THE NATURO WINS FAVOR.

ONE of the features of the Master Plumbers' convention at Atlanta, Ga., which created an unusual amount of interest, was the exhibit of the Naturo Co., of Salem, N.J., manufacturers of the Naturo closet and seat. This concern, in a very short period of seven months, by most up-to-date adver-

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A new principle in Hand Power Pipe Threading.



No. 1

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WE MAKE ALL LINES

All Cast
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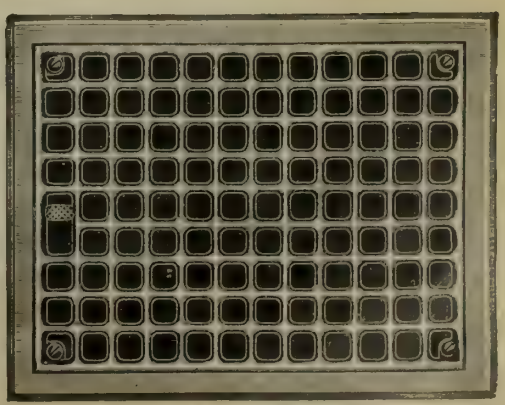
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Large Air Space,
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is used by every steam-fitter. Ask your supply house for our goods for best results. Or, if they have no got them, write direct to

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LIMITED
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The only exclusively Blacksmith Supply and General Machinery House in the Great Canadian Northwest.

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MAKES MONEY FOR YOU

Your customer, the farmer, wants a fence that can be put up quickly and easily just when he wants it. Hand made fences cost too much when you figure the time it takes to build them, to say nothing of the hard work.

Why not sell "The Ideal," the best woven wire fence made? You can build up a permanent trade that will pay you as much as any line you are handling. Other hardware merchants are doing it. Why not you? The Ideal will give satisfaction to your customer and make him your friend.

Have you seen the Ideal? Let us send you a sample and catalogue showing why Ideal fence made from No. 9 hard steel wire throughout is the strongest and the best value.

Ask us about the Ideal all metal farm gate.

The McGregor-Banwell Fence Co., Limited,
WALKERVILLE, ONT.
Merrick, Anderson & Co., Winnipeg, Man.
Sole Agents for Man. and N.W.T.

tising methods, has made itself known to every plumber in the United States and Canada. The Naturo Co. is carrying out a very complete publicity campaign, the benefit of which directly reverts to the plumber who carries its closets. In addition to its magazine advertising, which is said to reach 30,000,000 people, the Naturo Co. furnishes to every plumber who carries its goods a most liberal amount of high-grade printed matter in the form of booklets, folders, etc. This printed matter, delivered absolutely free of charge each month, with the name of the individual plumber alone appearing as the advertiser, is meeting with a very ready response from the public. In short, the most important point above all in the mind of the Naturo Co. is to help the plumber by every known method to sell his goods. The illustration herewith shows some of the Naturo representatives who were at the Atlanta convention in the interest of the company.



Naturo Representatives at Atlanta Plumbers' Convention.
S. P. Sanderson. A. M. Maddock, Jr., Geo. E. Stevens. Harry A. Wheeler.
F. W. Alles. C. H. Muckenhirn. W. P. Baxter.

Mr. C. H. Muckenhirn, the president and general manager, is located at Salem, N.J., where he gives his personal attention to all of the many details connected with the business. Mr. W. P. Baxter, manager of the Boston office, has charge of the selling department for New England and Canada. Mr. George E. Stevens, Boston, brings the Naturo to the attention of the architects of New York, Boston and vicinity. Mr. Frederick W. Alles, St. Louis, devotes his time to that vicinity and the southwest. Mr. Shirley P. Sanderson devotes his time to Chicago and vicinity. Mr. Harry A. Wheeler, secretary of the Barta Press, Boston, has charge of producing the printed matter for the Naturo Co. Mr. A. M. Maddock, Jr., of Thos. Maddock's Sons Co., sees that Naturo closets come through the pattery in good shape, and is, therefore, one of the most important factors in the organization.

PLUMBING GOSSIP.

G. B. Pippy, of Truro, N.S., intends opening up a plumbing and tinsmith business in Oxford, N.S. Mr. Pippy is an experienced man in these lines, having conducted shops in Truro and Pictou.

A representative from Winnipeg is in Brandon completing arrangements for the installation in the Alexander Milling Co.'s mill of a 250-horse-power suction gas plant. This system of power is new, and is practically just being introduced, though it is being installed and is in operations in big concerns in the southern states.

The big engine, which weighs 75,000 pounds, is being made by the Weber Co., of Kansas City, Mo. It is guaranteed by the gas company that 3½ lbs. of Souris lignite coal only will be required per horse-power, the water consumed will be 25 per cent. less than that required for the steam plant, and 11½ per cent. will be saved in the regulation of speed. The plant to be put in for the Alexander Milling Co. will be the first in Canada.

W. J. McGuire & Co., Toronto, have just completed a four-months' job in installing the plumbing and fire-prevention systems for the new factory of the Gutta Percha Co. at Parkdale. In connection with the outside sprinklers to protect the building, a lot of underground work was necessary to install a system of hydrants, the company maintaining their own fire brigade and keeping steam pressure on all the time. A fine system of closets was also installed, the waste being just above the floor and the work being the finest yet done on any factory in Toronto.

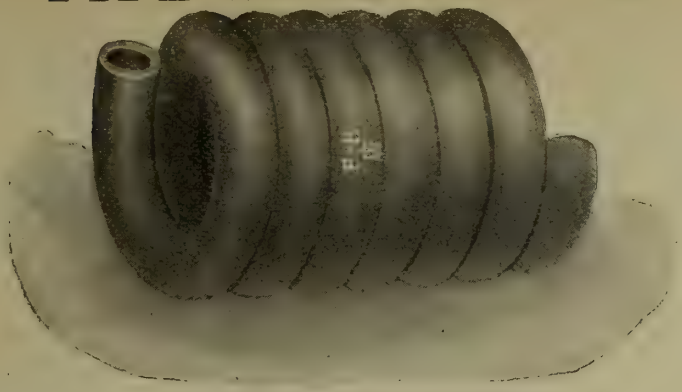
PIPE THAT IS PIPE

THIS IS OUR BRAND

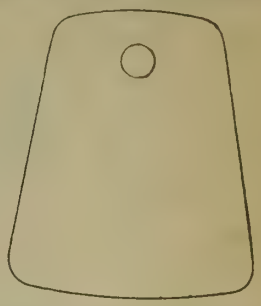
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See that You Get It.



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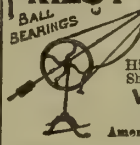
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Largest Variety, Toilet, Hand, Electric Power

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WE MAKE THEM.

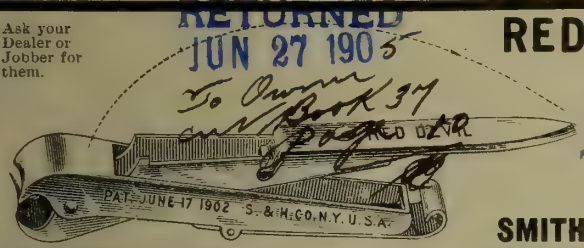
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Will Clip and Trim Nails Perfectly

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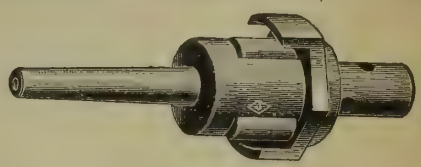
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Self-Feeding Boiler Tube Expander

has case-hardened body. It will outwear any Expander on the market, and it's cheap.

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For Clocks, Phonographs, Typewriters and Steam Drills—in any quantity

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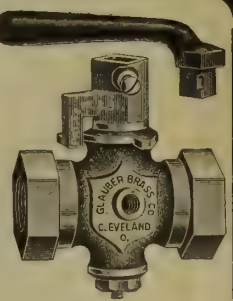
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At the Same Price

Isn't it Best to use the Kind that are

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GLAUBER, CLEVELAND, OHIO, U.S.A.



NO OTHER BOILER

stands the wear and tear like

THE ECONOMICAL HOT WATER BOILER

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P. GIES, Founder, BERLIN, ONT



We make Electric Fixtures, Sockets, and Cut-Outs

Munderloh & Co

Electrical Supplies of all kinds. MONTREAL.

Plumbing Markets

QUEBEC.

Office of HARDWARE AND METAL,
232 McGill Street,
Montreal, June 23, 1905.

BUILDING activity has had a stimulating effect upon the plumbing trade, and increased business has been noted. Everywhere trade is reported excellent.

Range Boilers—We quote as follows: Iron clad, 30 gallon, $6, and 40 gallon, $7.50 net; copper, 30 gallon, $22; 35 gallon, $24; 40 gallon, $28. The discount on copper boilers is 15 per cent.

Lead Pipe—The market remains unchanged, and steadiness is expected for some time. Prices are firm. We quote as follows: Discount 30 and 5 per cent. f.o.b. Montreal, Toronto, St. John, N.B., and Halifax; f.o.b. London, 15c. per hundred lbs. extra.; f.o.b. Hamilton, 10c. per hundred lbs. extra.

Iron Pipe Fittings—No change has taken place during the week. Discount on all sizes of nipples up to six inch, 67 1-2 to 70 per cent.

Iron Pipe—A heavy demand continues, and manufacturers are very busy trying to keep pace with the orders. Prices remain unchanged. We quote as follows: Standard pipe, in lots of 100 feet, regular lengths, 1-4 inch, $5.50; 3-8 inch, $5.50; 1-2 inch, $8.50; 3-4 inch, $11.50; 1 inch, $16.50; 1 1-4 inches, $22.50; 1 1-2 inches, $27.00; 2 inches, $36.00; discounts on black pipe, 1-4 inch, 62 1-2 per cent.; 3-8 inch, 62 1-2 per cent.; 1-2 inch, 72 1-2 per cent.; 3-4 inch, and upwards, 74 1-2 per cent. Discounts on galvanized pipe: 1-4 inch. 47 per cent.; 3-8 inch, 47 per cent.; 1-2 inch, 62 per cent.; 3-4 inch and upwards, 64 per cent. Extra heavy pipe of 100 feet lots are quoted as follows: 1-2 inch, $12.00; 3-4 inch, $15.00; 1 inch, $22.00; 1 1-4 inches, $30,00; 1 1-2 inches, $36.00; 2 inches, $50.00. The discount for black pipe is: 72 1-2 per cent., and for galvanised, 61 per cent.

Soil Pipe and Fittings—No change has occurred, and prices are firm and steady. Our quotations are as follows: Standard soil pipe, 50 per cent. off list. Standard fittings, 50 and 10 per cent. off list. Medium and extra heavy soil pipe 60 per cent. off. Fittings 60 per cent. off.

ONTARIO.

Office of HARDWARE AND METAL,
10 Front street east.
Toronto, June 23, 1905.

NEW lists on all lines of supplies in which prices have been changed will be issued during the coming week, the jobbers having practically concluded the work of revising all quotations. The chief changes are on brass goods, as announced a couple of weeks ago, although enameled ware figures have been revised considerably, the tendency in this class of goods being upward, particularly in baths.

During the week prices have advanced on large sizes of iron pipe, 2 1-2 inch now being quoted at 16c., 3 inch at 21c., 3 1-2 inch at 27c., etc. No other changes are anonunced as yet.

Business continues very active in all classes of supplies, all the jobbers being busy with both city and country orders.

Lead Pipe—Prices continue as before, a large business being done. We quote as follows: Lead, 7c.; lead waste pipe, 8c.; discount, 30 and 5 per cent.

Soil Pipe and Fittings—No change is reported in prices, the activity in buying creating a steady tone. We quote as follows: Medium and extra heavy pipe and fittings, 60 per cent.; 7 and 8 inch pipe, 40 and 5 per cent.

Iron Pipe Fittings—Business is very brisk, and prices continue firm. We quote as follows: Malleable fittings 20 to 25 per cent. for American and 35 per cent. for Canadian; cast iron (standard), bushings, 65 per cent.; headers, 60 per cent.: flanged, unions, 60 per cent.; lipped unions, 60 and 5 per cent.; malleable bushings, 60 per cent.; nipples up to 6 inch inclusive, 75 per cent.

Copper Range Boilers—Conditions are the same with prices steady. The discount of 15 per cent. continues.

Galvanized Iron Range Boilers—General activity is reported, buying being very active at steady prices. We quote as follows: 12 gallon capacity, standard, $4.50; extra heavy, $6.50; 18 gallon, standard, $4.75; extra heavy, $6.75; 24 gallons, standard, $4.75; extra heavy, $6.75; 30 gallon, standard, $5; extra heavy, $7.50; 35 gallons, standard, $6; extra heavy $8.50; 40 gallons, standard, $7; extra heavy, $9.50; 52 gallons, standard, $11; extra heavy, $14; 66 gallons, standard, $18; extra heavy, $20; 82 gallons, standard, $21; extra heavy, $24; 100 gallons, standard, $29; extra heavy, $34; 120 gallons, standard, $34; extra heavy, $40; 144 gallons, standard, $47; extra heavy, $55.

Iron Pipe—Large sizes have advanced in prices, but small sizes are unchanged. Demand continues active. We still quote: Black, 1-4 inch, $2.03; 3-8 inch, $2.06; 1-2 inch, $2.29; 3-4 inch, $2.87; 1 inch, $4.12; 1 1-4 inch, $5.62; 1 1-2 inch, $6.75; 2 inch, $9. Galvanized, 1-4 inch, $2.86; 3-8 inch, $2.89; 1-2 inch, $3.14; 3-4 inch, $4.02; 1 inch, $5.77; 1 1-4 inch, $7.87; 1 1-2 inch, $9.45; 2 inch, $12.60.

Solder—Large quantities are being used on contract work, and buying is active. We quote: Bar solder, half and half, guaranteed, 18c.; wiping solder at 16 1-2 to 17c., and refined 17c.

Enameled Ware—Tendency of prices is upward, an advance in baths being expected. We quote: Baths, rolled rim, 5 feet, 2 1-2 inch rim, 1st quality, $17.50, special, $15.50; 3 inch rim, 1st quality, $19.00, special, $17.00; 5 1-2 feet, 2 1-2 inch rim, 1st quality, $19.00, special, $17.00; 3 inch rim, 1st quality, $20.50, special, $18.50. Lavatories, discounts 30 to 40 and 5 per cent. Sinks, 18 x 30 inch, flat rim, 1st quality, $2.45; special, $2.

Manufacturers realize fully the necessity of displaying their goods before the public if they want them to attract attention. For that reason many of them put up their lines in neat cabinets or cases or on cards. Safety razors are shown in a neat glass case holding an assortment of different styles. Many other lines are similarly displayed in cases furnished by the manufacturers.

SHEET BRASS AND COLD ROLLED COPPER

We are now fully equipped and can fill all orders for these metals.
Send us specifications of your requirements. Write for our Discount Sheet.

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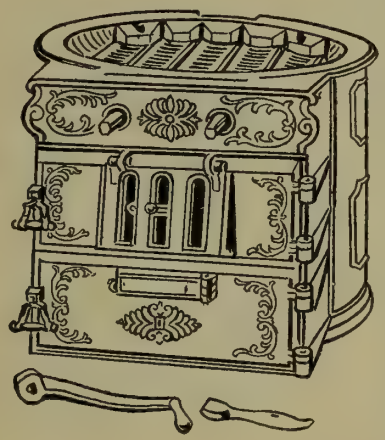
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are unequalled for General Appearance, Style and Construction

If you want the best you must carry our line.

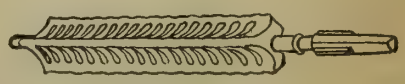
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PARIS - - ONTARIO



The construction of the Oxford Hot Water Boiler with the sifting grate is alone worth the careful consideration of everyone interested in heating apparatus. An ash-sifter is incorporated in the base, by which all the fine ashes and burnt-out coal are dropped into the bottom, from which they can be easily removed; while the good coal is held in the sifter and may readily be shovelled back into the fire.

The triangular revolving grate is hollow, giving an immense air space without permitting any live coals to drop through.



By turning the grate all dead ashes and clinkers are sharply cut off and dropped into the ash-pit, leaving the fire bright and clear. A few extra turns dumps the whole contents of the fire-pot when desired. By removing two outside screws any grate bar can be taken out.

Write for our "Gurney Oxford Book of Hot Water and Steam Heating Apparatus."

The Gurney Foundry Co., Limited

TORONTO WINNIPEG VANCOUVER

The Gurney-Massey Co., Limited, Montreal, P.Q.
The Gurney Standard Metal Co., Limited, Calgary, Alta.

WE CAN SHIP REFRIGERATORS PROMPTLY



Are you taking advantage of this hot weather to sell refrigerators ?

A little hustling will sell them fast these days, and the profits are good.

WE CAN SUPPLY THE

Model Iceberg and Leonard

Write for Summer Goods Booklet

The McClary Manufacturing Co.

LONDON, TORONTO, MONTREAL, WINNIPEG, VANCOUVER, ST. JOHN, N.B. HAMILTON

"Everything for the Tinshop."

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Montreal.

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Oshawa Steam & Gas Fitting Co., Oshawa, Ont.
Toledo Pipe Threading Machine Co., Toledo, O.

PLUMBING TRADE DEVELOPMENT.

A GLANCE backward for a few months will cause any person interested in the plumbing trades to note a wonderful advance being made this season, not only in Ontario, but in all parts of Canada.

Toronto is receiving its share of the progress, reference being made in this week's issue to two industries which are arranging to manufacture or erect warehouses in the Queen City, while announcement was made only a fortnight ago of the securing of important agencies and the proposed erection of a new building by a new plumbing supply firm.

Without endeavoring to enumerate all the new enterprises in connection with the plumbing and heating trades in Ontario, attention might be drawn to the establishment of new radiator industries at Guelph and Brantford with rumors of a third enterprise of a similar nature; to the opening of the brass mills at New Toronto and to the opening up and expansion of similar enterprises at Hamilton and London; to the enlarging of the enamel ware plant at Port Hope; and to the opening up of a jobbing house at Port Arthur.

Montreal and Winnipeg are also securing their share of the general progress by the organization of new companies and the expansion of existing ones, as well as by the establishment of branch houses by United States concerns, which are shrewd enough to endeavor to secure a share of the Canadian trade. The Maritime Provinces and British Columbia also send reports of remarkable development in the plumbing and heating trades, the outlook in all parts of the Dominion being of the brightest for the future of the trade.

AN ANTI-AMERICAN CAMPAIGN.

AMERICAN manufacturers are becoming agitated over the anti-American feeling which is being stirred up in China. The feeling seems to have become widespread, and students and guilds are uniting to push the propaganda for boycotting all American goods. The dangerous feature of the affair is that the movement has been set on foot by the educated class, who bitterly resent the treatment which they have received in the United States.

In the exclusion and persecution of the Chinese the Americans seem to have never suspected that the poor benighted heathen might take offence and retaliate. They are now convinced of their mistake, and there is an outcry from all corners of the States against the stringent enforcement of the Chinese immigration laws. The market of 400,000,000 people is not lightly to be thrown away. Already the exports of cottons to China have reached enormous figures and a boycott would be most disastrous to the cotton industry. Other important lines of business, too, are greatly interested in keeping up cordial relations with China.

At the present time it looks as if a substantial improvement in their treatment of the Chinese will be necessary if the agitation in China is to be stemmed. Already great harm has been done to American manufacturers, and it is a difficult matter to allay a prejudice which has once been aroused. Especially is this the case where there are shrewd commercial agents of other nations ready to make the most of such a feeling.

METAL vs. WOOD.

EVOLUTION, as well as shortage in supply, is causing wood to give way to metal in innumerable products and articles of general use. The increasing cost of lumber has much to do with the introduction of metal in many lines, but the general evolution in industry is probably an even greater factor.

Reference was recently made in these columns to the increasing use of metal lath, beams, sidings, ceilings and roofings, metal screens, etc., used in the building trade, a branch of industry where metal and cement, hardwaremen's goods, are rapidly crowding wood aside.

It appears that the increasing velocity with which railroad trains now travel, and the greater danger to life and property owing to collisions, is forcing wood out of the field of car construction, an instructive experiment being made a few days ago to demonstrate the relative indestructibility of the steel railroad car.

A collision was arranged, and the cars survived an impact delivered at a speed of forty miles an hour. Of course, an actual collision under ordinary conditions might have produced different results, but the experiment proved two things at least: First, that a steel car will bear a tremendous shock without breaking up, and second, that it presents far less inflammable surface to feed the fire that so often follows in the wake of a wreck.

Some of the American roads have built steel cars for the accommodation of mail clerks, whose usual position in the first section of an express train is little less perilous than that of the fireman and engineer in the cab. Other railroad companies are likely to follow this example at once, and it seems inevitable that in course of time the steel car will be employed universally on trunk lines. This change will greatly reduce the loss of life annually credited to collisions, and while the initial expense to the transportation companies will be heavier, they will be counterbalanced by the longer life and the greater structural stability of the steel car, and also from the reduction in the number of damage suits due to accidents.

While the steel car cannot be made strong enough to resist perfectly the shock of all collisions, it will not telescope as readily as the wooden car, and while it may crumple somewhat under terrific pressure, it cannot splinter. These two advantages make its ultimate adoption everywhere a certainty.

ONTARIO'S BUREAU OF HEALTH.

SEVEN medical men, practising their profession at various points throughout the province, at present constitute the Provincial Board of Health, meeting quarterly to discuss matters relating to the health of the citizens and the sanitary conditions of the various municipalities of the province. The work cannot be done thoroughly or satisfactorily under such an arrangement, and a movement is on foot to bring about an improvement, amongst other suggestions being that made by Dr. Hodgetts, secretary of the board of health, that a department be organized and presided over by a Minister of the Provincial Cabinet.

Dr. Hodgetts draws attention to the fact that of the seven departments now in existence, two have been added since confederation, i.e., Public Works and Education, to which must be added the office of President of the Council.

Between the Provincial Secretary and the Minister of Agriculture are divided the functions which would be included in the jurisdiction of the proposed Minister of Health. The former is responsible for the administration of hospital and gaol inspection; hospitals for the mentally diseased, the board of health, vital statistics and neglected children, while factory inspection, their sanitary arrangements and methods adopted to protect the life of the artizan, is under the control of the Minister of Agriculture. It would be somewhat difficult, however, to show any connection between the Minister of Agriculture and this work. The Provincial Secretary, it is also contended, has duties so numerous that he cannot give health matters the attention they deserve under our ever developing systems of sanitation and health preservation.

Increase in Public Institutions.

In 1867 there were only two hospitals for the mentally diseased with 951 patients, while to-day there are nine with a population of 5,581. In 1870 there were eight hospitals, two refuges and ten orphan asylums, and in 1904 there were 61 hospitals, 41 refuges and 32 orphan asylums, the expenditure having grown from $40,510 to $191,217. Since confederation more than one-fifth of the total expenditures of the province have been in branches which have to do with the health of the people. While the sum of $20,992,576 has been spent on education, $25,738,450 has been outlaid on hospitals, asylums and charitable institutions. From a financial standpoint, therefore, it will be seen that the advocates of a new Department of Health have good arguments to advance.

It is from other directions, however, that readers of Hardware and Metal will find the best reasons for the proposed change. Everything to-day is tending towards centralization and specialization, and it would appear that by centralizing all matters relating to health under one head and employing practical men to look after each branch, each of these to be specialists, and the whole to constitute an advisory board capable of being called together at a moment's notice by the Minister, that much better results would be secured at less expense.

To-day the Bureau of Health is composed of seven physicians, all of whom have theoretical but not practical knowledge of such important problems as plumbing regulations, sewage disposal, water works installation, filtering basins, etc. Under the proposed organization the board would include a sanitary engineer, medical inspector, plumbing inspector, chemist and bacteriologist, and practical knowledge would be available at board meetings dealing with every branch of the department. As an indication of the impractical methods at present in force it might be mentioned that some years ago a set of "Model Plumbing By-laws" was drafted by the medical men on the board of health, and the best disposition that could be made of them would be to consign them to an honored place amongst the antiquities to be found in the new provincial museum for ancient and modern plumbing fixtures and systems.

Uniform Sanitary Regulations.

The great need of a provincial plumbing law is shown by the recent appointment of a committee to prepare such regulations for the Ontario Master Plumbers' Association. While some cities have fairly good laws others have practically no regulations whatever and the health of the citizens of these cities is in imminent danger, and were it not for the good work of the plumbers' associations disease would work greater havoc than it does at present. While it would be impossible to enforce one set of regulations in all parts of the province because of climatic differences, a board of practical men would soon work harmony out of the chaos that now exists.

Not only is the question of sewage disposal a live one in the cities and towns, but it is also a problem in the rural sections, investigation having shown that typhoid fever is more prevalent in the country than in the cities. Investigation as to the best methods of disposing of manufacturing waste and domestic sewage must be made and this can only be done to advantage by the people through a well-organized health department. Included in this problem is that of the pollution of the waters of our lakes, rivers and creeks, from which a large share of the water used by the people of our province is drawn.

In the installation of water works systems and the construction of filtering basins, public health calls for the services of a sanitary engineer to supervise the construction and carry on an annual inspection, the work being such as to be better done by a practical man than by a board of physicians. The growth and manufacturing development of the smaller towns and cities in Ontario is forcing several of them to install modern water works and fire preventive systems every year.

Dangers to Travelers' Health.

The recent report on the sanitary condition of the Muskoka and Kawartha Lakes Districts shows that much can be done by the Bureau of Health as at present organized, but with greater powers better results can certainly be obtained. The condition of the hotels referred to in the report mentioned indicates the dangers undergone by travelers who visit the health resorts of our province where modern sanitary conveniences have not been installed. And if the water supplies of many country hotels are drawn from similar sources to that of the Gravenhurst hotel spoken of in the report, with its well in the centre of the hotel barnyard, and in close proximity to manure piles and water closets, commercial travelers and others run great risks, and their interests lie with the plumbers in advocating any change which will make for an improvement in the water supply and sanitary arrangements of country, as well as city hotels. It might be well to enforce a regulation that no license be granted to any hotel failing to protect the health of its inmates in these particulars.

With the adoption of the progressive policy outlined legislation should be secured compelling cities to provide public baths and public comfort stations for the use of the citizens. There is great need for both of these modern conveniences in Canadian cities, and there are few cities which are so backward as those in our own country in this regard. Hotels, bar-rooms, public and office buildings and departmental stores to-day provide conveniences which should be available to both sexes in municipal structures.

Sale of Adulterated Goods.

While the inspection of canned goods and the adulteration of goods is in the hands of the Department of Trade and Commerce at Ottawa, such work as deals with the health of our citizens should also come under the jurisdiction of the Ontario authorities.

The overcrowding of unsanitary build-

ings in the cities by newly-arrived foreigners is another question which must be dealt with at once, and with a strong hand, owing to the property interests involved, the public health being paramount. The statement was recently made that over 60 Italians were living in an ordinary seven-roomed house in St. John's ward, Toronto, the men being herded together in a most unsanitary manner.

Enough has been written to show that evolution has made the present machinery of the Bureau of Health incapable of meeting the modern problems of our over-crowded cities and country resorts to the best advantage, and this paper cannot do other than urge that the matter of establishing a Department of Health, under a Minister of the Crown, be given due consideration by the Government, and failing a favorable decision that some sort of a reconstruction be undertaken with a view to bettering the conditions upon which depends the health of the people of Ontario.

POSTAL EXPRESS SYSTEMS.

EVERY once in a while an agitation is raised for an extension of the parcels post system, so as to take in parcels now carried by the express companies. Two classes of people favor the taking up of this work by the postal department, the chief advocates being the departmental store and mail-order merchants and their customers. Farmers who desire to send their produce to market cheaply are also in favor of the plan.

But the general public are interested in the financial side of the question. Would it not result in a greater deficit for the postal department? Country merchants whose business would be hit by placing the postal service as an additional auxiliary of the mail-order dealers have a strong point in contending that they should not be taxed to aid in destroying their own business.

The Chicago Chronicle, one of the most ably conducted of Chicago's dailies, takes the stand that parcel post legislation would be unwise for the country at large, irrespective of the retailer's interests. Its policy is well expressed in the following editorial:

"As a matter of fact there is no necessity for a parcel post law. We already have a law under which great quantities of merchandise are sent by mail. There is no need of any additional legislation circulated to increase the business of the post office department except, possibly, its only proper business—that of carrying and delivering communications written and printed, including regular publications for the diffusion of news and knowledge.

"It is notorious that Government pays far more for carrying all kinds of mail matter, including merchandise, than individuals, firms or corporations pay the transportation companies for like service. Yet the very people who scold at the railroad companies for exacting high charges from private shippers demand that the Government, which pays much higher charges, engage on a much larger scale in the merchandise shipping business.

"These people seem not to care how exorbitant the prices the Government has to pay to the 'grasping' railroad corporations for carrying things—paying, of course, out of money contributed by taxpayers—provided it takes business away from the express companies by doing the same business for the patrons of those companies for less than it pays the railroad companies for the carrying. This kind of economy is proposed for the benefit of the people!

"The Government may serve the people greatly by exercising its power to regulate. It will be pretty sure to do harm if it goes further into business on its own account."

ELECTRICAL ASSOCIATION CONVENTION.

THE fifteenth annual convention of the Canadian Electrical Association at Montreal on June 21, 22 and 23, has been particularly interesting. The attendance was large and the meetings were characterized by an earnest interest and considerable enthusiasm. At the Wednesday session, besides the opening business and the reading of reports, a well thought out paper on "Effects of Frequency and Voltage on Transformers" was read by M. A. Sammett. In the afternoon three papers were read and discussed, namely: "Transformers," by R. T. McKeen; "Selection and Maintenance of Service Meters," by William Bradshaw, and "Incandescent Lamps," by A. B. Lambe, followed by the opening of the question box.

Thursday's programme included papers on "The Operation of Alternators in Parallel," by A. L. Mudge; "Induction Motors," by H. A. Burson, and "Heating of Enclosed Conductors," by Prof. R. B. Owens. At 12.45 special cars awaited the delegates at the Windsor Hotel, from whence they were conveyed, as the guests of the Allis-Chalmers-Bullock Limited, where they were entertained to luncheon in a large tent provided for the occasion, about 350 in all taking part, after which a group photograph was taken. A visit was then made to the shops of the company, and on returning the various sub-stations of the Montreal Light, Heat & Power Co. were inspected. In the evening a smoking concert was held at Back River, where special cars conveyed the visitors.

The concluding day of the convention was devoted to papers on "Economy of Isolated Plants," by K. I. Aiken, and "Notes on Steam Engines and Boilers," by William Mackay, followed by the opening of the question box. In the afternoon the election of officers took place. A trip has also been proposed to Shawinigan Falls. This convention has been one of the most successful in the history of the association and has been marked by special interest on the part of all those in attendance.

INTERNATIONAL POSTAGE STAMPS.

INTERNATIONAL postage stamps, if they could be introduced, would be a great boon to the business world, though it would seem that an international currency would have to be established first. The currency of one country can rarely be expressed accurately in the currency of another country, and that being the case international stamps would be purchased cheap in one country and sold dear in another. The advantage of the stamp is manifest when we consider the relations between Canada and the United States. How frequently Canadians receive return envelopes from the other side of the line stamped with United States stamps. How many times U.S. stamps are sent over in payment for articles, and vice versa. All this causes difficulties and delays, which would be obviated by having a special stamp for these purposes.

Of course, it might be possible to frame some regulations, which would prevent the bartering of these stamps between countries where the currency is different. Still there would not be this difficulty on this continent, and we believe it might be a good move to advocate the introduction of an international postage stamp here.

TAKE THE CASH DISCOUNT.

DO you get the benefit of your money by looking out for your cash discounts?

You ought to. It pays. It takes less money to do it than it does to let your bills run the full ninety days. Of course if you don't care for the money it is your privilege to lose the discount.

You buy $100 worth of goods, invoice dated July 1. You can pay that bill with $97 (if the discount is 3 per cent.) if you pay it in ten days; but it takes $3 more if you let it run over. It amounts to making your money earn you over 13 per cent. a year without taking a risk. Remember this—the bill has to be paid, so why not pay it when it takes least money?

And it amounts to an item in the year's business that is surprisingly large. A Chicago merchant recently published a statement showing his method of book-keeping, and one of the most interesting items was the fact that his saving, from discounts for cash payment, amounted to $158.38 on an annual business of $17,000. Was it not worth saving?

MARKETS AND MARKET NOTES

(For detailed prices see Current Market Quotations, page 66.)

Quebec Hardware Markets.

Office of HARDWARE AND METAL,
232 McGill Street.
Montreal, June 23, 1905.

MIDSUMMER dullness has already set in in many quarters, although a fair general business is being done. The barb wire and steel situation is normal. Wire nails are moving freely, and the trade in cut nails is fair. Sporting goods trade is exceedingly good, especially in arms and ammunition. Building paper is selling freely. A large demand has set in for apple parers and binder twine.

Axes—A good steady business is being done for future shipment. Prices are unchanged. We quote as follows: Chopping axes, unhandled, $6 to $9.50 a dozen; double bitt axes, $9.50 to $12 a dozen; handled axes, $7.50 to $9.50; Canadian pattern axes, $7.50 a dozen.

Handles—No change has taken place, and there is a fair demand. Our quotations are as follows: Axe handles, No. 3, $1.25; No. 2, $1.50; No. 1, $1.90 a dozen; adze handles, 34 inch, $2.20 a dozen; pick handles, No. 2, $1.70; No. 3, $1.50 a dozen.

Sewing Machines—Considerable improvement has taken place, and an increased demand has marked the trade. No change has been made in the price list and prices are firm. Our quotations are as follows: Hand sewing machines, $11 each net; complete machines with stand, $18 and up, according to quality.

Lanterns—Steady business is reported, and good orders have been booked for Fall shipments. We quote the following: Cold Blast, $4.50; No. 0 Safety, $3.50.

Barb Wire—There is a good market with prices firm. We quote as follows: $2.75 for 100 lbs. f. o. b. Montreal; $2.37 1-2 f.o.b. Cleveland. Carlots of 15 tons, $2.25 f.o.b. Cleveland.

Fence Staples—Business is not so good, but prices are unchanged. We quote as follows: $2.65 per 100 lbs. keg, for bright, and $3 for galvanized; 25 to 50-lb. packages 25c. extra.

Rivets and Burrs—No large business is being done, but orders continue to come in freely. Our quotations are as follows: Best iron rivets, section, carriage and wagon box, black rivets, tinned do., copper rivets and tin swede rivets, 60, 10 and 10 per cent.; swede iron burrs are quoted at 60 and 10 and 10 per cent. off new lists; copper rivets with the usual proportion of burrs, 45 per cent. off; and coppered iron rivets and burrs in 5-lb. cartoon boxes at 60 and 10 and 10 per cent.; copper burrs alone, 30 and 10 per cent., subject to usual charge for half-pound boxes.

Screws—Trade is quiet. Prices are steady. We quote as follows: Round head, bright, 82 1-2 per cent.; flat head, bright, 87 1-2 per cent.; brass, round head, 75 per cent.; brass, flat head, 80 per cent.

Bolts and Nuts—A good demand continues, and there has been a decided increase of sales over last year. It is expected that this demand will continue.

Wire Nails—A good business is being done, and free sales are reported all over the trade. Prices are firm. We quote: 2.25 a keg f.o.b. Montreal.

Cut Nails—The market remains the same with a fair demand. We quote: $2.20 a keg, f.o.b. Montreal.

Horseshoes—Horseshoe trade is quiet, although orders are being placed now for Fall trade. At this time of year business is generally decreasing in these lines. There are no changes in prices. We quote as follows: P.B. New Pattern, base price, $3.50 per 100 lbs.; M.R.M. Company latest improved pattern iron shoes, light and medium pattern No. 2 and larger $3.65. No. 1 and smaller $3.90; snow pattern, No. 2 and larger $3.90, No. 1 and smaller $4.15. Light steel shoes, No. 2 and larger, $3.90, No. 1 and smaller $4.15; featherweight, all sizes 0 to 4, $5.50; toe weight, all sizes 1 to 4. $6.75. Packing—Up to three sizes in a keg ten cents per hundred pounds. More than three sizes twenty-five cents.

Horse Nails—The market remains unchanged with a steady business.

Sporting Goods—A first-rate business is being done in arms and ammunition, as well as in sporting goods generally. Prices are firm, but no marked advance is reported. We quote: Canadian-made shells, black, 25 and 5 per cent.; smokeless, 25, 10 and 5 per cent.; American centre-fire cartridges, list net; sporting and military, 10 per cent. advance on list; primers, $2.05 per thousand; American loaded shells, 20 per cent. discount; B.B. caps, $2 per thousand; standard shot, $6.50 per hundred lbs.; chilled, $7 per hundred lbs.; buck and steel, $7.50 per hundred lbs.; ball, $8 per hundred lbs. We quote discounts 15 per cent. on shot f.o.b. Montreal, Toronto, Hamilton, London, St. John and Halifax.

Building Paper—Excellent business is being done. Prices are firm. The demand is likely to be strong for some time, but no increase in price is expected.

Cordage—Binder twine is selling freely, and it is expected to continue for some time, as this is the season when large quantities are used.

Cement and Firebrick—The reduction in price quoted last week has been maintained. Local dealers do not believe that it will continue. Our quotations are as follows: English cement, $1.80 to $1.90; Belgium, $1.60 to $1.90 per barrel; ex-store, American, $2.00 to $2.10 ex-cars; Canadian Portland, $1.90 to $2.00. Firebrick, English and Scotch $17 to $21, American $30 to $35.

Coil Chain—Prices are firm and no changes are reported. We quote as follows: 5-16 inch, $4.25; 3-8 inch, $3.75; 7-16 inch, $3.55; 1-2 inch, $3.35; 9-16 inch, $3.30; 5-8 inch, 3.20; 3-4 inch, $3.05; 7-8 inch, $3; 1 inch, $2.95.

Green Wire Cloth—Trade in these goods is about finished for this season. We quote: Per 100 square feet, $1.50.

Poultry Netting—Trade is good, and there is a reported scarcity in some sizes. Discounts for two inch nineteen gauge standard, and sixteen guage extras, at 60 per cent.; finer meshes, 55 per cent.

Spring Hinges—Trade is good. Prices are firm. We quote: No. 5, $7.25 per gross; No. 19, $18 per gross; No. 20, $18.80 per gross; No. 120, $20 per gross; No. 51, $9.25; No. 50, $27.50.

Apple Parers—Trade is improving in these goods, as this is the season which occasions there demand. We quote: Little Star, $4.85; Hudson, $5; Rocking Table, $5.25; Turn Table, $6; Canadian, $4.50.

Ontario Hardware Markets.

Office of HARDWARE AND METAL,
10 Front Street East.
Toronto, June 32, 1905.

FLY goods are the greatest sellers just now, screen doors and windows being shipped to buyers in very large quantities by all the jobbers. Wire orders of a repeat nature are being received in large numbers, while many merchants have had to send orders for additional lawn mowers to supply the increasing and persistant demand.

Rakes and other garden, lawn and farm tools are also moving actively. As one jobber said, "the chief feature last week was the rush of orders, and it is the same this week—only more of it." Prices continue as before.

Lawn Mowers—Many repeat orders are being received for mowers, the trade being very large this season.

Sporting Goods—Ammunition is selling better, while fishing tackle continues to move in large quantity.

Washing Machines—Demand continues an average one.

Chain—Trade is in its normal state. We quote: 1-4 inch, $6.50; 5-16 inch, $4.45; 3-8 inch, $3.85; 7-16 inch, $3.70; 1-2 inch, $3.55; 9-16 inch, $3.45; 5-8 inch, $3.35; 3-4 inch, $3.25.

Step Ladders — Business continues satisfactory. We quote at 10c. per foot for 3 to 6 feet, and 11c. per foot for 7 to 10 feet ladders.

Extension Ladders — Movement of goods is reported as very satisfactory. Waggoner, 40 per cent. off list.

Galvanized Wire — Trade continues

active, orders being larger than looked for. We quote: $2.37 1-2 f.o.b. Cleveland.

Poultry Netting—Demand for poultry netting is reported as continuing very active.

Barb Wire—A strong demand is reported from the country districts, and many repeat orders are being booked.

Wire Nails—Building operations are ausing a large sale of wire nails, and stocks are being called upon heavily. Nominal quotations are $2.25 f.o.b. Toronto.

Cut Nails—Demand continues active, and prices remain firm. Quotations are $2.40 per keg f.o.b. Toronto.

Horseshoes — Trade continues very good for this season. We quote as follows: "P. B." base, $3.65; "M.R.M. Co., latest improved pattern" are: Iron shoes, light and medium pattern, No. 2 and larger, $3.80; No. 1 and smaller, $4.05; snow No. 2 and larger, $4.05; No. 1 and smaller, $4.30; light steel shoes, No. 2 and larger, $3.95; No. 1 and smaller, $4.20; featherweight, all sizes, 0 to 4, $5.50; toe weight, all sizes, 1 to 4, $6.75. If shipped from factory 15c. less.

Horsenails—Demand is normal and prices remain unaltered.

Screws—Trade continues active with sales very large.

Rivets and Burrs—No decrease in the demand is reported, while quotations continue the same.

Bolts and Nuts—A good trade is being done, and stocks are being diminished slightly. The same quotations rule.

Cordage—Hay fork rope is moving actively. Repeat orders for binder twine are not coming in as yet, merchants being well stocked up. We quote: Red Cap, 11 1-2c.; Tiger, 10 1-2c.; and Standard, 9 1-2c.; Cordage: manila, 15c.; British manila, 11 1-2c.; sisal, 10 1-2c.; double lathyarn, 10 1-2c.; single lathyarn, 10c.; sashcord, "Hercules," 30 to 32c.; "Star," 36 to 38c.; cotton twine, 3-ply, 24c.; 4-ply, 29c.; calking cotton, 16 1-2 to 17c.; cotton waste, colored, 6 3-4c.; white 11 to 13c.

Cement—Last week's quotations hold firm, a brisk trade being done. Dealers are declining to quote ahead, better prices being looked for in July and August. We quote as follows: For carload orders f.o.b. Toronto, Canadian Portland, $1.85; American Portland, $1.85 to $1.90. For small orders ex warehouse: Canadian Portland, $2 to $2.10; American Portland, $2 to $2.10.

Firebrick - Business is slack, but will pick up in July. Prices are firm. We quote: English and Scotch firebrick, 27 to 30c.; American low-grade, 20 to 25c.; high-grade, 27 1-2 to 37 1-2c.

Building Paper—Prices of roofing pitch in Ontario and of ready roofing complete have been shaded slightly. Other lines are unchanged. Business is brisk.

Hides, Tallow, Skins and Wool—During the week an advance of 1c. in the price of unwashed wool new clip has been recorded, also an advance of 1c. in wool washed fleece. Wool is being pretty well picked up through the country; general trade is quiet and without particular indications. We quote the following:

Hides, No. 1 green steers, per lb.	....	0 10
" " 2 " " "	....	0 09
" No. 1 green, per lb.	....	0 09½
" " 2 " " "	....	0 08½
Country hides, flats, per lb.	0 08	0 08½
Calf skins, No. 1, selected	....	0 11
" " No. 2	....	0 09
Deacons (dairies), each	....	0 80
Sheep skins	....	1 25
Lamb skins, each	....	0 30
Shorn pelts "	....	0 25
Rendered tallow, per lb.	0 04	0 04½
Unwashed wool, new clip, per lb.	.	0 15
Wool-washed fleece	....	0 23
Pulled wools, super, per lb.	0 21	0 23
" " extra "	0 22	0 24

Canadian Metal Markets.

INDICATIONS are for an early improvement in the demand for pig iron. Ingot metals are holding their prices fairly well, while antimony is advancing. The heavy demand for copper in China for coinage is strengthening the copper market.

Heavy purchases of steel rails have tied up the mills at Sydney and the Soo for some time, and as jobbers have replenished their stocks by imports trade is moving along very satisfactorily with very little fluctuation in prices.

QUEBEC.

Office of HARDWARE AND METAL,
232 McGill Street,
Montreal, June 23, 1905

Pig Iron—Canadian pig iron is still prominent. Firmness rules, but no advance is expected. We quote:

"Disc," No. 1	$16.50	delivered	Montreal.
"Dom.," No. 1	17.50	"	"
Usual difference in price for lower grades.			
Ferrona No. 1	$18 00	delivered	Montreal.
" No. 2	17.50	"	"
" No. 3	16 50	"	"
" No. 4	16.00	"	"
Londonderry	$18.50 to $19.00	"	"
Glengarnock	18.25	"	"
Gartsherrie	19.25	"	"
Carnbroe	18.50	"	"
Carron No. 1	19.00	"	"
" (special)	18.00	"	"
Ayresome No. 1	18.25	"	"
" No. 3	17.50	"	"
Summerlee	18.50 to 19.00	"	"
Clarence No. 1	17.50	"	"
" No. 3	17.00	"	"
No. Cleveland	17.50	"	"

Bar Iron—No change is reported. The easy condition of last week is maintained, and a further decline is expected. Our quotations are as follows: Merchant bar, $1.80; horse-shoe iron, $2.02 1-2; forged iron, $2.05; best refined iron, $2.20 net cash thirty days.

Tool Steel—Steadiness is ruling, although trade is quiet. We quote as follows: Colonial and Black Diamond, 8c to 9c; Sanderson's, 8c to 45c, according to grade; Jessop's, 13c; Jonas & Clover's, 10c to 20c; "Air Hardening," 65c per lb.; Conqueror, 7 1-2c; Conqueror High Speed steel, 60c.

Merchant Steel—Dullness has set in, and few orders are coming in. Prices are easy. Our quotations are as follows: Sleigh shoes, $1.97 1-2; tire, $2.07 1-2: spring, $2.75; toecalk, $2.62 1-2; machinery iron finish, $2.10; reeled machinery steel, $2.75; mild, $2 and upwards; rivet, $2 and upwards. Net cash thirty days.

Cold-Rolled Shafting—The market is steady, and prices are firm and unchanged. We quote: Cold-rolled shafting, 3-4 inch to 17-16, $3.85 per 100 lbs.; inch and a half to 3 inch, $3.50 per 100 lbs.

Canada Plates—A steady demand continues with prices firm. We quote as follows: 52's, $2.35; 60's, $2.40; 75's, $2.45; dull polished, $3.60; galvanized, 52's, $3.90 to $4; 60's, $4.15 to $4.25.

Galvanized Iron—The market is unchanged. Prices are firm. We quote: Queen's Head, 28 gauge, $4.15; 26 gauge, $3.90; 22 to 24 gauge, $3.65; 16 to 20 gauge, $3.55; Apollo, 28 gauge, $4; 26 gauge, $3.75; 22 to 24 gauge, $3.75; 16 to 20 gauge, $3.40; Fleur-de-Lis, 28 gauge, $4; 26 gauge, $3.75; 22 to 24 gauge, $3.50; 16 to 20 gauge, $3.40; Comet, 28 gauge, $3.95; 26 gauge, $3.70; 22 to 24 gauge, $3.45; 16 to 20 gauge, $3.40; Bell brand, 28 gauge, $4; Gorbal's "Best Best," 28 gauge, $4.15; "Windmill Best," 28 gauge, $3.95; Sword and Torch, 28 gauge, $4.05; in less than case lots, 25c extra.

Black Sheets—Steady prices rule, with a good demand. We quote as follows: 28 gauge, $2.15; 26 gauge, $2.10; 22-24 gauge, $2.05; 19-20 gauge, $2.20; 8-10 gauge, $2.30.

Antimony—A remarkable advance has taken place in antimony, making a total increase of £15 sterling per ton during the last ten days. Trade is brisk. We quote: 11 3-4 to 12c.

Sheet Zinc—Prices are firm and the demand good. We quote: Cask lots, $7; small lots, $7.25.

Tin Plates—The demand is good and prices firm. We quote: Cokes, $3.75; charcoal, $4.

Ingot Tin—The market is firm and unchanged. Present prices range from 33 to 33 1-2c.

Ingot Copper—Although no actual change has taken place, the tone of the market is weakened. We quote: 16 to 16 1-4c.

Ingot Zinc—Easier prices continue, and a decline is expected any day. We quote: 6 1-4 to 6 1-2c.

Pig Lead—Firmness has continued, and the advance of last week has been maintained. Further advances are expected. We quote from $3.40 to $3.50, no concessions being obtainable.

Boiler Tubes—Prices are unchanged, and the market steady. We quote as follows: British and American tube, 1 1-2 inch, 8 1-2c.; 2 inch, 8 1-2c.; 2 1-2 inch, 10c.; 3 inch, 12 1-4; 3 1-2 inch, 16c.; 4 inch, 20c.; 5 inch, 45c. Price per foot net.

Scrap Metal—Business is good locally. Export trade is dull in scrap stove plate and wrought iron. Copper and brass maintain their strong position, and some good orders have been booked. Our quotations are as follows: Heavy copper and wire, 12 3-4c.; light copper, 11 1-2c.; heavy red brass, 10 1-2c.; yellow brass, 8 3-4c. to 9c.; light brass, 6c.; lead, 2 1-2c.; zinc, 3 3-4c.; machinery cast scrap, $14; wrought scrap, $13; stove-plate scrap, $10; No. 1 country rags, 75c. to 90c. per hundred lbs.; old rubbers, 5 1-4 to 5 1-2c. per lb.

ONTARIO.

Office of HARDWARE AND METAL,
10 Front street east,
Toronto, June 23, 1905.

Pig Iron—Activity is increasing, and sales are fairly large. Quotations continue at:

Middlesboro, f.o.b., Toronto	$20 00	$20 50
Hamilton, No. 1, at furnace	18 00	18 50
" No. 2, "	17 50	18 00
Midland, No 1, "	....	18 50
" No. 2, "	....	18 00
Radnor, at furnace	....	30 00
Londonderry, at furnace	16 50 to	17 00

Bar Iron—A satisfactory trade is reported. Prices continue as follows: $1.85 f.o.b. Toronto, with discount of 2 per cent.; for extras as cut to length, while rolling, 2 feet and over, 10c. per 100 lbs., 1 foot and under 2 feet, 15c.; under 1 foot, 20c.; over 20 feet, by special agreement according to length and size.

Tin—Stocks are light and prices very firm. We quote: 33 to 34c. per lb.

Galvanized Sheets—A heavy demand exists. Prices are firm, but unchanged.

Tin Plates—General activity is reported at steady prices.

Canada Plates—Active demand for goods is reported. Prices are the same.

Brass—Trade continues active and prices firm. Discounts are 10 per cent.

Lead—There is not much stock on hand, and the active demand causes prices to continue firm. We still quote as follows: Pig lead, $3.80 per 100 lbs., and bar lead, $4.80 per 100 lbs.

Zinc Spelter—Demand continues strong. We quote: 7c. per lb. for foreign and 5 1-2 to 5 3-4c. per lb. for domestic.

Copper—A firmer tone is reported as existing. Prices are unchanged. We quote: Ingot copper, 15 3-4 to 16c. per lb., and sheet copper, 21c. per lb.

Antimony—Business is quiet, and prices steady at 11 to 11 1-2c. per lb.

Old Material—Business in all metals is reported brisk, receipts and sales being made in satisfactory quantity. Prices continue firm. Our quotations are as follows: Heavy copper and wire, 12 1-2c. per lb.; light copper, 11c. per lb.; heavy red brass, 10 1-2c. per lb.; heavy yellow brass, 9c. per lb.; light brass, 6 1-2c. per lb; tea lead, $2.40 per 100 lbs.; heavy lead, $2.60 per 100 lbs.; scrap zinc, 4c. per lb.; iron, No. 1 wrought, $9 to $10, No. 2 wrought, $3 to $5; machinery cast scrap, $13; stove plate, $10; malleable and steel, $5; old rubbers, 5c. per lb.; country mixed rags, 65c. per 100 lbs.

Coal—Buying is normal and prices steady. We quote: Anthracite in cars at bridges: Grate, $4.95 per gross ton; egg, stove and nut, $5.20 per gross ton; pea, $3.60 per gross ton.

Standard Hocking, soft coal, in cars, f.o.b. at mines: Lump, $1.35; 3-4 inch, $1.25; run of mine, $1.05; nut, 90c.; N. P. and S., 60c.; slack, 40c.; box cars 10 cents per ton additional.

Youghiogheny soft coal in cars, bonded at the bridges: 1 1-4 inch, $2.45; 3-4 inch, $2.35; mine run, $2.35; slack, $1.80.

For Manitoba Metal Markets see page 44.

MINES AND MINERALS.

The Dominion Coal Co. will erect a modern plant for unloading coal vessels at Halifax, N.S.

* * *

The International Coal & Coke Co. are producing about 800 tons of coal a day at their mine at Coleman, in the Crow's Nest Pass region of British Columbia, and the main entry is now in the mountain for a distance of 4,000 feet. The coke ovens near the mine are producing 125 tons a day, which is taken by the smelters in the Northwest.

* * *

At Frank, Alberta, the Canadian-American Coal Co. have repaired the damage recently done to their mine by fire, and are now turning out 800 tons a day, and are preparing to sink a new slope to further develop their property.

* * *

The St. Lawrence Coal Co., who own considerable coal properties at North Sydney, N.S., will shortly commence operations, and install a plant with a capacity of raising 500 tons of coal a day. Charles Brandeis, consulting engineer, Montreal, has been retained as chief engineer of the company.

* * *

The Canadian Coal & Ore Dock Co. will build a combined coal and ore dock at Port Arthur, Ont. The first section, to be 3,000 by 600 feet, will be completed this year. It is proposed to dredge a channel, about 200 feet wide and 3,000 feet in length, from the harbor, which will cross the end of the dock, and to divert into it the waters of the creek and river. The dock will be open to the public and all coal dealers will be permitted to use it, a fixed tariff being arranged for handling and storage. The Barnett & Record Co., Minneapolis, Minn., are the contractors.

* * *

Last year the iron works at Han Yang, China, turned out more than 35,000 tons of steel rails, which were sold at an average price of $31.37 a ton. The output of pig iron was increased from 120 to 170 tons a day. The iron works employed five foreigners as managers and overseers and over 3,000 native workmen.

* * *

Mining operations in the County of Hastings are at present very active. The Craig Gold Mine, near Bannockburn, is doing well. Some fifty men are employed there. The Star of the East Mine, near Cloyne, is being developed with good results. The main shaft is sunk 180 feet into the rock, and there are three drifts from this shaft. At present a ten-stamp mill is in operation, which is continually kept busy. The Golden Fleece Mine, situated near Flinton, has recently been secured by a Mr. Cowan, who is developing it, and claims that it is rich in mineral deposits, but the working conditions are not so economical as upon other properties.

* * *

If the Dominion Coal Co. is to show as good shipments for 1905 as for 1903, some heavy hustling will require to be done the remaining months of the year. As compared with 1903 the shipments for the five months are nearly a quarter of a million tons short. That means if 1905 is to come up to 1903, the shipments for June, July and August, must average about 400,000 tons per month.

LONDON METAL MARKETS.

From Metal Market Report, June 21, 1905.

Pig Iron—Middlesboro No. 3 foundry is quoted at 45s. 6d, and Scotch warrants at 49s. 4d, making prices as compared with last week unchanged for Middlesboro and unchanged for Scotch warrants.

Tin—Spot tin opened firm at £139, futures at £137 10s, and after sales of 230 tons of spot and 120 tons of futures closed firm at £139 5s. for spot and £137 15s. for futures, making price as compared with last week £1 7s. 6d higher on spot and £1 5s. higher on futures.

Copper—Spot copper opened firm at £6k, futures £66, and after sales of 75 tons of spot and 50 tons of futures closed firm at £66 2s. 6d for futures, making price as compared with last week 2s. 6d higher on spot and 2s. 6d higher on futures.

Lead—The market closed at £13, making price as compared with last week unchanged.

Spelter—The market closed at £24, making price as compared with last week unchanged.

New Brunswick Trade News

St. John, N.B., June 20, 1905.

NOTHING of particular interest in the hardware world has happened of late. Business has been of an average character with, of course, a steadily-increasing demand for those articles useful in passing a pleasant Summer, which are usually carried by hardware establishments, and for those other articles which are brought into requisition not by pleasure seekers, but by those who spend their Summers in haying and kindred occupations. As already stated in this column, it cannot be estimated very accurately as yet how great will be the demand for haying tools. If the weather during this month continues such as is calculated to make for a good hay crop, the demand for haying implements will, of course, be brisk. Otherwise, merchants carrying large stocks of these tools will be apt to be left with considerable stock on their hands. The demand for Summer sporting goods is very satisfactory. Golf is winning new devotees in St. John and, consequently, the sale of golf goods is increasing. Tennis supplies are also ready sellers, as are most other sporting requisites.

The New Brunswick Iron Co. are making good progress with their operations at Lepreaux. Borings to the depth of

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LIMITED
DESERONTO, ONT.
Manufacturers of
CHARCOAL PIG IRON
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Especially adapted for Car Wheels, Malleable Castings, Boiler Tubes, Engine Cylinders, Hydraulic and other Machinery where great strength is required; Strong, High Silicon Iron, for Foundry Purposes.

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BRAND
Foundry Pig Iron.

Made from carefully selected Lake Superior Ores, with Connellsville Coke as Fuel, "Midland" will rival in quality and grading the very best of the imported brands.

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Get our prices for
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THE "VANDA" BRAND
For all purposes requiring the best quality.
It is "deadflat," well galvanized, true to gauge and specially soft for working-up. We guarantee every sheet bearing our brand.

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Wholesale Merchants
Ormidale Block, Vancouver, B.C., and
Liverpool, England
Direct Importers of:
Metals of every description, Wire Rope, Portland Cements, Firebricks, Ore Sacks, Grain Bags, etc, etc.

some six hundred feet have been made, and further boring will probably be made shortly. The ore located on the property owned by this company is said to be of a high grade, and the opinion seems to be that it will not be long before Lepreaux is the scene of prosperous iron works.

A local paper drew attention a few days ago to the fact that there are now three concerns engaged in manufacturing stoves in St. John, whereas a few years back there were no stoves made here at all. The companies referred to were the J. E. Wilson Co., Limited, the Carleton-Forbes Co., and McLean, Holt & Co. Each of these concerns turns out quite a number of stoves and ranges of various kinds, and the business is by no means diminishing despite outside competition. The newspapers very properly pointed out, also, that the Enterprise Foundry at Sackville is, in one way at least, a local foundry, for it is controlled by Messrs. Emerson & Fisher. Reference to the growth of the business done by this last-named foundry was made in this column some time ago.

While touching on this stove question, it will not be amiss to refer to the new store recently opened by one of the firms mentioned above—McLean, Holt & Co. This company have opened a store on Union street, where Glenwood stoves and ranges are displayed with other articles of kitchen equipment. As the company announce that their stoves are made in St. John by St. John workmen the demand for their goods will, doubtless and deservedly, be greater than otherwise.

The wire fencing season is now practically over for a time at least. The sales this season have been such as to please the dealers. Even larger sales are expected next season.

Among the manufacturers who sailed recently to England with the manufacturers' excursion was Mr. R. B. Emerson, of Messrs. Emerson & Fisher.

Nova Scotia Trade News

Halifax, N.S., June 20, 1905.

DEALERS in hardware report some improvement in business during the past week. They say that trade is looking up in some lines, and that the prospects for the future are much brighter. The market, however, appears somewhat erratic, and dealers are a little backward about quoting prices on some lines. This is particularly so in Halifax at present. Jobbers appear anxious to ascertain prices of certain lines dealt in by rival business concerns and the amount of their holdings. The lines referred to are principally glass and oils. According to information in the hands of some of the dealers here, glass promises to advance, as the market is said to be affected by labor troubles in Germany. Dealers with holdings of glass here decline to quote prices.

Turpentine continues strong and is now quoted at 99c. here. Oils are unsteady, and the price is high. Linseed is quoted at 55c. and boiled at 58c. Best Manila rope is quoted at 15c. and British at 11½c. There is only a moderate demand for cement and the price is unchanged. Wire nails are firm and an advance is looked for. Manufacturers have made a slight advance in price, but up to the close of the week jobbers had

SANDERSON'S TOOL STEEL

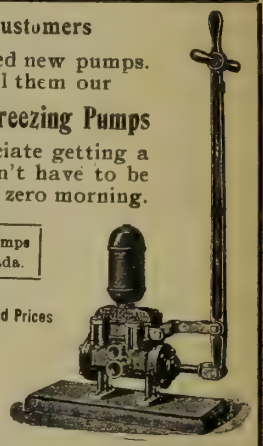
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NOVA SCOTIA STEEL & COAL CO., Limited
NEW GLASGOW, N.S.
Manufacturers of
Ferrona Pig Iron
And SIEMENS-MARTIN
OPEN HEARTH STEEL

not increased their prices. Wire nails are quoted at $2.30 base, and cut at $2.50. It is something unusual for the price of cut nails to be higher than the wire.

A good jobbing trade is being done in builders' materials. Tarred felt is quoted at $1.85 per hundred pounds, tarred sheathing at 50c. and dry sheathing at 40c. Three-ply roofing is $1.15 per roll and 2-ply roofing 90c. per roll.

The market for lead pipe is firm, the price quoted being $4.90 per cwt. The demand for ingot tin continues good, and pig lead and sheet lead are firm. Since the opening up of construction work on the South Shore Railway a good business is being done in furnishing supplies to the contractors. Some very large orders for picks, shovels, pipe, bar iron, barrows, etc., have been filled by local firms. In addition to those articles, a considerable quantity of cooking utensils of all descriptions are required for the camps, and the hardware jobbers secure the greatest bulk of this trade. The large amount of railway construction work that has been going on in the province for some time past has been of the greatest benefit to the trade. The contractors are good pay and settle promptly, and this is one of the principal reasons that the trade is so anxious to cater to them.

The mining trade appears to be at a standstill. This branch of the business has not been so dull for years. Orders for mining supplies are coming in very slowly. Collections have shown some improvement, and the dealers hope the period of stagnation of trade has past.

UNITED STATES METAL MARKET.

Advance proofs furnished HARDWARE AND METAL by The Iron Age, June 23, 1905.

NEW business has been rather light in nearly all branches of the iron and steel trades, and in some of them what is virtually a deadlock between buyers and sellers continues. Yet there is little uneasiness in any quarter. On the contrary, sentiment is rather improved, although there is little that is tangible in the way of new orders to justify it.

In pig iron there come reports from some distributing markets that inquiries are a little more numerous, but the tonnage being placed is light and buyers are securing some concessions in prices. Birmingham reports sales of basic pig for western delivery aggregating 15,000 tons, but the market is easier, and $12 is being shaded for No. 2 foundry.

The coal miners of the Birmingham district have decided to demand again last year's scale, which the commercial mines accepted and the furnace companies with only two exceptions refused, making the fight which has now lasted a year. The situation is, therefore, unchanged, and the open mines of the furnace companies will continue as heretofore.

Practically nothing has been done in Bessemer pig in the central west. The low prices for melting scrap have rather curtailed the requirements for pig in the open hearth steel plants.

The only interesting item in the rail trade is the report that the Tennessee Co. have taken orders aggregating 55,000 tons for 1906 delivery from southern systems. The Ohio steel plant at Youngstown is about to roll rails in the place of sheet and tin plate bars.

The tonnage of structural material which is coming upon the market is very satisfactory, and some trouble in meeting deliveries is being experienced. Among the larger contracts placed is that for 24,000 tons for the Philadelphia Rapid Transit, which has hung fire for some time past.

The plate trade is in good shape. Among the orders for boats lately placed is one large vessel for the Hudson River Line and a turbine vessel for the New York-Boston Line. The hull and machinery for the former will be built on the Hudson, while the hull for the latter has not yet been placed. The contractors for both are the Fletchers, of Hoboken, N.J.

A meeting is being held to-day between the amalgamated association and the independent sheet mills. The demands of the men for an advance of about 18 per cent. will certainly not be granted, and there is a chance for a partial suspension of work.

PITTSBURG METAL MARKETS.

Iron Trade Review, June 22, 1905.

OUTSIDE of the heavier lines there is no change in the general situation. New business in sheets, steel bars, tin-plate and wire continues light, and there is little buying of pig iron. In the heavier lines the mills are almost as far behind on their orders as they were during the boom years, and a large number of inquiries in the market do not indicate any cessation in the buying movement.

Merchant furnaces in the valleys as well as in the south are stocking iron, and it is estimated that the stocks in the south now aggregate 150,000 tons. One large producer alone is carrying about 100,000 tons, and on a large tonnage little difficulty would be experienced in doing $11.75 Birmingham for No. 2.

Pig Iron—In the Valleys practically all the merchant furnaces are piling iron, and the Bessemer producers are not pushing sales on the present market. Small lots of Bessemer have been sold as low as $14.75 furnace, while forge iron is down to $14.25 to $14.40. Few furnaces are willing to sell No. 2 Foundry below $15 furnace, but this can be shaded nevertheless. Despite the large stocks of iron in the south, that market is being fairly well held, and producers do not believe that they will have to go much lower before the next buying movement sets in. There have been no additions to the idle list of furnaces in the past week, and none of the stacks in operation are preparing to go out. We revise quotations as follows:

Bessemer, Valley	$14 75	to	$15 00
Bessemer, Pittsburg	15 60	to	15 85
No. 1 Foundry	16 25	to	16 50
No. 2 Foundry	15 60	to	15 75
Gray forge, Pittsburg	15 15	to	15 25
Basic, Valley	14 75	to	15 00
Basic, Pittsburg	15 60	to	15 85

Billets—The pressure to sell billets on the part of some of the large producers is not as great as it was several weeks ago, and the curtailment of sheet bar capacity has also strengthened that market. We quote Bessemer billets at $23 to $23.50, and open-hearth $24 to $24.50. Sheet bars are held at $25 to $26. Bessemer and open-hearth rods are quiet at $33 to $34.

Plates—On open-hearth plates, local mills are filled almost to the end of the year. On Bessemer tank shipments are a little further deferred, but can be made in from five to six weeks.

Structural Material—The pressure on structural mills continues great, and new orders that are now being booked cannot be delivered in less than three to four months.

Sheets—Demand for sheets continues light, and several plants have become idle during the week. A large portion of the present capacity will be idle on July 1, as the new business that is being placed is not large enough to insure operations of the country's total capacity.

Bars—New business in steel bars continues light, but speculations are heavy enough to insure the full operation of the mills in this district. Railroad specifications for iron bars are heavy, and the market is being fairly well maintained.

Merchant Steel—Inquiry for merchant steel is heavy, and with the small stocks that jobbers are carrying the indications are that the buying movement shortly after the middle of the year will be heavy.

Wire and Wire Nails—Demand for wire products is not heavy, and jobbers are not placing orders for future delivery. Wire and wire nail production has been slightly curtailed, and the indications are that it will be further curtailed within the next two weeks. We quote: Wire nails, jobbers' carload lots, $1.80; retailers' carload lots, $1.85, and less than carloads, $1.95; painted barb wire, $1.95 for jobbers in carloads; retailers' carloads, $2, and less than carloads, $2.10, with 30c. for galvanizing. Annealed smooth fence wire is held at $1.65, with the usual differentials to retailers for carloads and less than carloads. Quotations are all f.o.b. Pittsburg, 60 days, with 2 per cent. discount for cash in ten days. Iron and steel cut nails, $1.70 to $1.75.

Old Material—There is considerable more inquiry for heavy melting stock, and some of the local mills are willing to dispose of their accumulations at $14 to $14.50. Otherwise the market continues quiet.

Coke—The deadlock between furnace operators and the coke producers for second-half requirements continues, and there is little hurry to cover. Connellsville producers are not willing to shade $2.10 for delivery through the last half, while the furnace operators believe that they should secure their coke at considerably less than $2. Foundry coke is selling at $2.35 to $2.40.

A PROGRESSIVE SPORTING GOODS STORE.

Mr. T. W. Boyd, Jr., whose photograph is reproduced herewith, is the main representative of one of the oldest and best known sporting goods houses in Montreal, the firm of T. W. Boyd & Son, at No. 1683 Notre Dame street. Besides catering to the retail trade this firm have been dealing extensively in the wholesale end of the business, and to-day they are well known throughout



Mr. T. W. Boyd, Jr., Montreal.

the Dominion as progressive and up-to-date wholesale jobbers. This firm is by no means in its infancy, having been established since the year 1845. A full and complete line of sporting goods of every detail and of every character to meet the requirements of every person are kept in stock. A number of attractive and instructive catalogues have been issued by this company, and any dealer not already possessing one of these would do well to send for one.

LATE ENGLISH CORNER IN IRON.

THE large stock of pig iron accumulated by the operations of the parties interested in the recent bull movement in English iron has reached nearly half a million tons.

The pool was formed in the expectation that a market could be obtained for the iron at high prices as a result of the boom in iron in America, but the increase of the latter stocks and the decreased activity upset the plan of the English speculators, who now find themselves with a stock of about half a million tons to which the English furnaces are constantly adding new supplies.

The short interest settled with the bulls towards the close of May, at which time the latter interest was supposed to hold 440,000 tons of the 480 000 tons of Cumberland iron in store at Middleboro'. The pool secured in all about 740,000 tons of iron, of which 300,000 tons were sold to the short interest at a profit of 1 to 5s. per ton. It is estimated that the stocks now held by the bulls cost them an average of 50s. or about $12.50 per ton.

A year ago the stock of Cumberland in warehouses was only 75,000 tons, Dec. 31 it was 192,000 tons, and May 19 it was 480,000 tons.

Modern builders realize that this is the metallic age of architecture.

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"Metallic" Cornices portray in rigid fire-proof metal any art conception possible in wood, avoiding its combustibility, outwearing wood by many years and reducing insurance charges.

While the metal, the workmanship and the art quality of our Cornice work is superior to anything made, its cost is comparatively low.

OUR NEW $10,000 CATALOGUE We have just issued the most complete Catalogue ever offered to the Metal Trade. It is a veritable encyclopedia of all that's practical and beautiful in the Art Manipulation of Sheet Metal. Book contains 440 pages, superbly bound and illustrated. We send it free upon request to any builder, contractor or dealer of responsibility.

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We also manufacture:
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"Empire" Metallic Shingles
"Metallic" Crestings and Finials
"Metallic" Corrugated Iron
"Hayes" Metallic Lathing
"Metallic" Eavetroughs and Conductor Pipe
"Metallic" Pressed Zinc Ornaments
"Richardson's" Pressed Metal Doors and Sheet Metal Building Materials of every description.

NEW SIDE WIRE CARRIAGE TIRE.

The Canadian Rubber Co. of Montreal, Limited, has purchased exclusive rights for the manufacture and sale of the "Republic" side wire tires for Canada.

This side wire tire is manufactured in the United States by the Republic Rubber Co., of Youngstown, Ohio, and is the latest and, the manufacturers claim, the most scientifically constructed carriage tire on the market.

In the United States, the sales of "Republic" carriage tires have reached enormous figures.

The Canadian Rubber Co. of Montreal, Limited, will commence the manufacture of "Republic" tires in Canada immediately, and as Canadian carriage manufacturers and others have been buying these particular tires very largely in the United States since their introduction, the information that the Canadian Rubber Co. of Montreal will manufacture and sell these tires throughout the Dominion will no doubt be welcomed by all carriage tire users.

GAS HEATER.

Patent No. 786300, issued to E. Laberge, Montreal. Figure 1 is a general upright view of this invention, being shown partly in sections. The invention relates to an improvement in stoves or furnaces of what are known as the "hot air" type, in which the air is circulated over and between heated surfaces, and when at the desired temperature is discharged through suitable conduit-flues into the rooms or other chambers which are to be heated. It relates, however, more particularly to gas stoves of that class which are designed to employ either natural or artificial

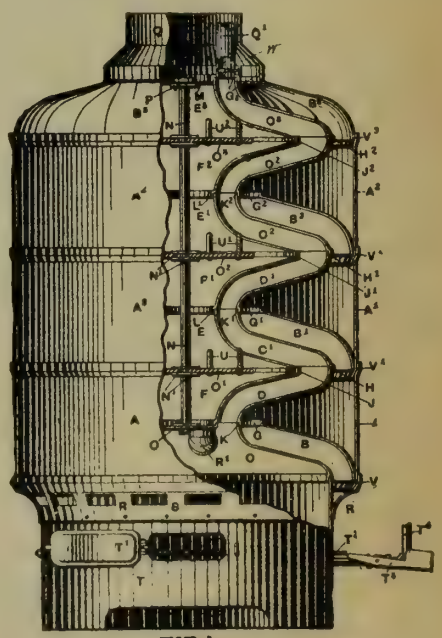


FIG. 1.
Gas Heater.

gases as a fuel in such a manner that, if desired, there would be no intermingling of the products of combustion with the heated air, thereby contaminating the same.

Gasoline stove time is here.

Keep after the men that are building new houses. They are the people that will be buying furnaces now.

DEPARTMENT OF ADVERTISING SUGGESTION AND CRITICISM

Edited by **Our Ad. Expert,** TORONTO.

NOTE.—Herein are discussed the principles and practice of advertising. Subscribers are invited to send our Expert specimens of their newspaper and other advertising, for the purpose of review in this department. Address care of Department of Advertising, THE HARDWARE AND METAL.

SOME advertisements, culled from Canadian papers, are reproduced this month, and they give a pretty fair idea of the chief elements that enter into all retail advertising—Pointedness, Appropriateness, Directness—while at the same time they represent the particular phases belonging to dissimilar styles of retail advertising.

The advertisement on "Graniteware" is in the "announcement" class. Graves Bros. call attention to a consignment of goods, which fact they consider sufficient for their patrons and others being

GRANITEWARE

Received—A very large consignment of imported Graniteware direct from the maunfacturers. The finest lot of Graniteware ever brought into the city, every piece being of first quality

Graves Bros.

Cor. Sparks and Metcalfe Sts., - OTTAWA

interested. They will give "particular" reasons at the store why these goods should be purchased. This is not a "selling" but a "bringing" advertisement.

The advertisement of A. J. Walker & Sons is partly particular and partly general. "Screen Doors" is the subject, and the prices are given, but this serves to draw the reader on to a number of other lines, which are not priced, but the prices of which can be secured when the purchaser is examining the screen doors. This advertisement has a "distant" appeal.

"Stoves" is a "Reason Why" advertisement. It is the only one of the three here given that makes a bid for patronage on argument. While no prices or sizes are given, the reader's attention is centred on stoves—Morrison's stoves. "Semi-direct" might suitably be applied to this advertisement.

All three advertisements appear to be opportune and show up to vastly better advantage than the old-style, cramped advertisement which repeated the same list of articles over and over again—articles which any person would expect a hardware merchant to keep in stock, but not necessarily to advertise when there was nothing special to say about them. When an advertisement is the nucleus of a statement that has timely application—then, and then alone, it becomes a force. Such a statement may only be to the effect that the "line of goods is new," that "the shipment has arrived," or that "the stock has been purchased at close prices," etc., but the reader knows then that he is not getting last week's details, but details that are for consideration—Now.

Another good point is that none of the three advertisements have hackneyed expressions, time-worn epithets about the "House of Quality," "Our Good Name," etc. The public is the best judge of the "quality" and the "good name." Emphasis on the goods advertised, not on the people advertising them, is the advertising that tells, for, after all, the public is not much concerned in your past, or, for that matter, in your present. They are concerned in what they are buying "To-day"— your stock, it it is THE stock. The store that talks "To-day,-' and lets "Yesterday" take care of itself, is the store that gets the trade.

These advertisements are also free from vagueness, which is commendable. Sometimes a hastily written sentence is a very expensive sentence for the writer, in that it confuses a number of readers, and confused readers are mostly "short" readers. It is far better to overstate than to understate, though if time is spent in the writing, and foresight spent on it, there should be no need for either. A good plan to adopt in this respect is for a merchant to prepare his advertising copy in advance. Then he can revise it in the raw state. This surmounts the necessity of scribbling improperly expressed sentences on the back of a bill-

It's a satisfaction to know that when you purchase a

STOVE

you get it at the lowest price and best value for your money. That's the way your customers feel. Try us when you are making a deal.

A full line of Household Utensils carried, at reasonable prices. It will pay you to call before purchasing elsewhere.

Thos. Morrison's

Perth St., Brockville.

head and rushing the copy off to the paper a few hours before the edition is to appear. A merchant should be "ahead of time" with the printer if he wants to be "on time" with the public. To accomplish this the merchant should keep memos and, say every Monday, look over the field of wares to advertise; then he should construct the advertisements for the week in the order of the days they are to appear. Preparing six advertisements in one day will not consume the time that preparing one advertisement each day for six days will consume.

SCREEN DOORS

$1.00 each, $1.40 each, $1.75 each.

Screen Windows, Poultry Netting, Lawn Mowers, Rakes, Hoes, Shovels, Picks, etc. Also Sherwin-Williams Paint, at

A. J. WALKER & SON'S,

PRINCE STREET TRURO, N.S.

VOLCANO TORCHES.

A NEW article which has been placed upon the American market, and which should be of great value and interest to plumbers, is a style of torch which is being manufactured by the Volcano Torch Co., of Erie, Pa. The torch, as shown in Figure 1, can be used either portable as a hand torch or stationery for bench or other kinds of work, with or without fire back, in storm or rain, or in any kind of weather or temperature. It can be filled when in action and can therefore be kept in operation indefinitely. It keeps up its own pressure for any length of time, and no air pump is required. The torch has a steel cylinder serving as a tank or body brazed, and stay bolted, and capable of resisting a pressure of 2,000 pounds per square inch. It is supplied with a safety valve to call the attention of the operator in case there is undue pressure within the cylinder. The device has an ordinary No. 3 lamp burner in place of a starting cup.

Besides being of great value to plumbers, the torch is designed for use in machine shops and toolrooms. The torch is likewise fitted with adjustable burners, and another modification permits its use as a forge and furnace. A tinner's, roofer's, and painter's torch is shown in Fig. 2. The burner A can be adjusted to different degree angles. A special nozzle for opening seams on roofs can be supplied, which produces a narrow elongated flame. A furnace for heating soldering coppers in shops or on roofs can also be used with the torch. The handle C permits the torch to be conveniently carried and operated. The torch is provided with a safety valve and pressure gauge, and can be operated under a working pressure of 10 to 180 pounds.

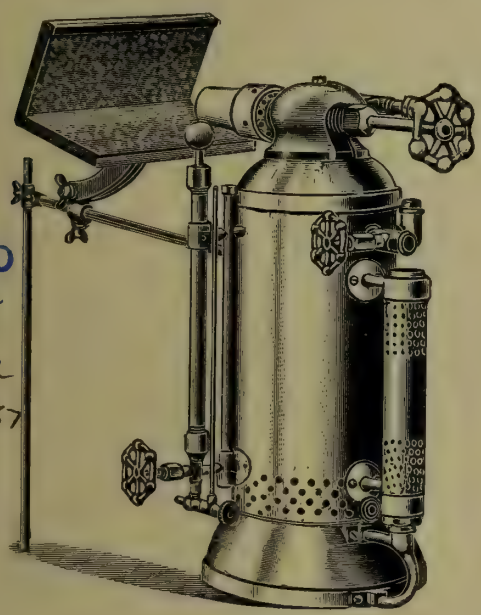


Fig. 1.—General Shop Torch.

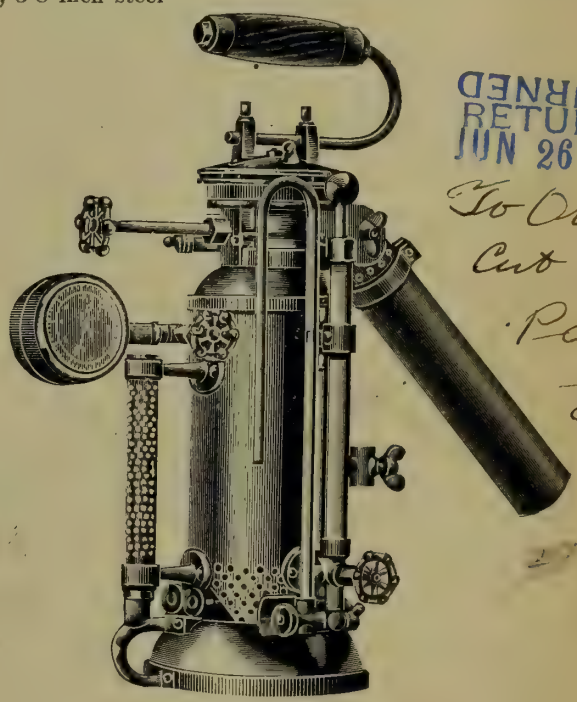
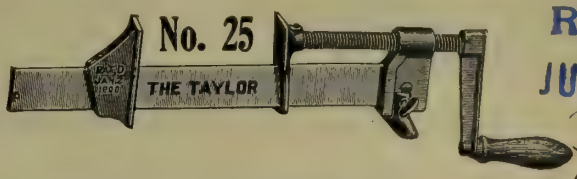


Fig. 2—Roofer's and Painter's Torch.

TAYLOR SELF-LOCKING CLAMP.

The quick adjusting, self-locking steel bar cabinet and pattern makers' clamp shown herewith is offered by the James L. Taylor Manufacturing Co., Bloomfield, N.J., the head of the company being a Canadian by birth. These clamps are great favorites wherever used. the points of superiority being: First—The instanteaneous adjustment of sliding head against the work operated on. Second—The self-locking action combined with positive grip. Third—The ease with which the power is applied, owing to a finer and more powerful screw, as well as a longer crank being used. Fourth—The high-grade steel bar—doubling the power of the clamp. Will take safe clamping strain of 10,000 pounds. All castings are of steel. 1 1-2 x 1-4 inch steel bar, 5-8 inch steel screw.



Tayior Self-Locking Clamp.

RETURNED
JUN 26 1905
To Owner
Cut Book 37
Page

BUSINESS CHANGES

Ontario.

J. Laferriere, blacksmith, Glen Robertson, has assigned to H. Lamarre.

James Langmuir Co., Limited, paint manufacturers, Toronto, have suffered loss by fire.

John Malone & Co., dealers in builders' supplies, Toronto, suffered loss by fire. They carried no insurance.

Quebec.

F. Comtois, plumber, Sherbrooke, is dead.

The assets of G. Lachance, saddler, Beauceville E., were sold on June 22.

Maxwell & Bernier have been registered as painters and decorators, Montreal.

A. Archambault has been appointed curator to A. Myre, carpenter, Montreal.

Manitoba and N.W.T.

H. McInnis, blacksmith, Teulon, is dead.

Sheriff is in possession of the premises of N. Thompson & Co., founders, Vancouver.

J. E. Menzies, dealer in agricultural implements, Minnedosa, is giving up business.

Armstrong Bros., dealers in agricultural implements, Whitewood, is giving up business.

The stock of Cotter Bros., plumbers, Winnipeg, was partially damaged by a falling wall; insured.

CHINA'S COPPER DEMAND.

Discussing the late heavy demand from China. the London Ironmonger says: "Certainly so long as China continues to purchase and take the enormous quantities of copper with which she has recently been identified the market must remain stable unless restriction occurs elsewhere; but evidences are clearly to be desired as to the purpose for which the copper shipped to China is intended. Quite recently China has bought a matter of 2,000 tons of copper blanks for coinage purposes, and we understand is inquiring for a further lot of a thousand tons. This quantity of blanks, to say nothing of prior purchases, should be of considerable assistance in furthering currency reform even in so vast a country as China, so that the purchase of tens of thousands of tons of unmanufactured copper is more mysterious."

STEPHENS SHINGLE STAINS

More and more every year this mode of roof treatment is coming into popular favor. Partly because they are cheaper than paint, but chiefly that they are a scientific combination of Creosote (the best wood preservative known) Manitoba Linseed Oil, coloring pigments and are excellent wood preservatives, besides imparting artistic and permanent color tones to the shingles. We make these stains in all the popular greens, reds, browns, etc., in all thirteen beautiful tints.

Sample Shingles and prices sent on request.

MANUFACTURED BY

G. F. STEPHENS & CO., Limited

PAINT AND COLOR MAKERS

WINNIPEG, - CANADA

Hardware and Metal Conditions in Manitoba.

(Market quotations corrected by telegraph up to 12 a.m. Friday, June 23, 1905.)

Office of HARDWARE AND METAL
Room 511 Union Bank Building,
Winnipeg, Man.

PREPARATIONS are being made by the local Association of Master Plumbers for the big convention of the National Association to be held in Winnipeg on August 8, 9 and 10. The plumbing trade will notice that the convention has been postponed from the date originally set for July 18, 19 and 20. Everything points to a large attendance and a most successful convention.

* * *

Mr. F. O. Lewis, of Lewis Bros. & Co., Montreal, was in Winnipeg last week.

* * *

General business continues very brisk, the attention of the trade being directed principally towards all lines of builders' hardware. Turpentine has been reduced 10 cents, the change going into effect last Saturday. Linseed oil is steady.

* * *

Screen Wire Cloth—Trade is confined to sorting orders, but there is a fair inquiry. The price is steady at $1.55 per 100 square feet.

Poultry Netting — In brisk demand. For the 2-inch mesh in No. 19 gauge wire, prices are as follows:

24-inch roll, perroll	$1 20
30 " "	1 50
36 " "	1 80
48 " "	2 40
60 " "	3 00
72 " "	3 60

Wire—Fencing wire is in good demand. Prices are steady. We quote:

Barbed wire, 100 lb	$2 85
Plain galvanized, 6 to 8	3 39
" 9	2 50 2 90
Plain galvanized, 10	3 50
" 12	3 10
" 13	3 20
" 14	3 90
" 15	4 45
" 16	4 60
Plain twist	2 85
Staples	3 35
Oiled annealed wire, 10	2 96
" 11	3 02
" 12	3 10
" 13	3 20
" 14	3 30
" 15	3 45

Annealed wires (unoiled) 10c. less.

Horseshoes—In seasonable demand at unchanged prices. We quote:

Horseshoes, iron, No. 0 to No 1	$4 55
No. 2 and larger	4 30
Snow shoes, No. 0 to No. 1	4 80
No. 2 and larger	4 55
Steel, No. 0 to No. 1	4 75
No. 2 and larger	4 50

Horsenails—Discounts are as follows: "C" brand 40. 10 and 7 1-2 per cent.. "M" brand and other brands 55 and 60 per cent. Add 15c. per box.

Wire Nails—Moving in very large quantities. Base price: $2.85 per keg.

Cut Nails—Base price $3 per keg. Very few selling.

Screws—Business is active at unchanged discounts. We quote:

Screws, flat head, iron, bright	85 and 10 p.c.
Round " "	80 p.c.
Flat " brass	75 and 10 p.c.
Round " "	70 and 10 p.c.
Coach	70 p.c.

Nuts and Bolts—Discounts are quoted as follows:

Bolts, carriage, ⅜ or smaller	60 and 5 p.c.
" 7-16 and up	55 p.c.
Bolts, machine, ⅜ and under	55 and 5 p.c.
" 7-16 and over	55 p.c.
Bolts, tire	65 p.c.
Bolt ends	55 p.c.
Sleigh shoe bolts	65 and 10 p.c.
Machine screws	70 p.c.
Plough bolts	55 p.c.
Square nuts, case lots	3c. discount.
" " small lots	2½c. "
Hex " case lots	3c. "
" " smaller lots	2½c. "

Rivets—Discounts continue as follows:

Rivets, iron	60 and 10 p.c.
Copper, No. 8	29½
" No. 12	33

Coil Chain—We quote:

Coil chain, 3-16 inch	9.25
" ¼ inch	7.25
" 5-16 inch	5.20
" ⅜ inch	4 60
" 7-16 inch	4.45
" ½ inch	4.30
" ⅝ inch	4.10
" ¾ inch	4.00

Shovels—Discounts on spades and shovels continue 40 and 5 per cent.

Harvest Tools—Discount 60 per cent.

Axe Handles—Quoted as follows:

Axe handles, turned, s.g. hickory, doz	$3 15
No. 1	1 90
No. 2	1 60
Octagon extra	2 30
No. 1	1 60

Axes—We quote:

Axes, chopping	$ 6 75 to 12 00
" double bitts	12 00 to 18 00

Files—We again quote as follows:

"Arcade"	70 and 10 p.c.
"Black Diamond"	60 p.c.
"Nicholson's"	62½ p.c.

Building Paper—In brisk demand. Prices firm. We quote:

Anchor, plain	55c.
" tarred	70c
Pure fibre, plain	60c.
" " tarred	80c.

Ammunition, Etc.—Prices and discounts are quoted as follows:

Ammunition, cartridges, Dominion R.F.	50 and 5 p.c.
Dominion, C.F., pistol	30 p.c.
" military	15 p.c.
Ammunition, cartridges, American R.F.	33⅓ p.c.
C.F. pistol	5 p.c.
C.F. military	10 p.c. advance.
Loaded shells:	
Eley's and Kynoch's soft, 12 gauge black	15 00
chilled, 12 gauge	16 00
soft, 10 gauge	18 00
chilled, 10 gauge	19 00
Shot, Ordinary, per 100 lb	6 25
Chilled	6 75
Powder, F.F., keg, Hamilton	4 75
F.F.G., Dupont's	5 50

Tinware, Etc.—We quote again as follows:

Tinware, pressed, retinned	70 and 10 p.c.
" " plain	75 and 2½ p.c.
" pieced	30 p.c.
Japanned ware	37½ p.c.
Enamelled ware, white	45 p.c.
" Famous	50 p.c.
" Imperial	50 and 10 p.c.

Cordage—Business is fairly active. Prices are quoted as follows:

Rope, sisal, 7-16 and larger, basis	11 25
Manila, 7-16 and larger, basis	15 25
Lathyarn	11 25

Solder—The price is now 20 cents per lb., with concessions for large quantities.

Iron and Steel—The market is steady. We quote:

Bar iron (basis)	2 50
Swedish iron (basis)	4 75
Sleigh shoe steel	2 65
Spring steel	3 00
Machinery steel	3 50
Tool steel, Black Diamond, 100 lb	9 50
Jessop	13 00

Black Sheets—Values are firm. We quote:

Black Sheets, 10 to 16 gauge, 100 lb	3 50
18 to 22 gauge	3 75
24 gauge	3 90
26 gauge	4 00
28 gauge	4 10

Galvanized Iron — Brisk demand; steady prices. We quote:

Apollo, 16 gauge	4 00
18 and 20 gauge	4 00
22 and 24 gauge	4 25
26 gauge	4 25
28 gauge	4 50
30 gauge or 10¾ oz	4 75
Queen's Head, 24 gauge	4 25
26 gauge	4 50
28 "	4 75

Tin Plates—Prices are quoted as follows:

Tinplate, IC charcoal, 20 x 28, box	9 50
" IX "	11 55
" XXI "	13 00

Canada Plates—There is a fairly active demand. Prices are:

Canada plate, 18 x 21, 18 x 24	3 25
Canada plate, 20 x 28	3 50
Canada plate, full polished	4 00

Sheet Zinc—The price of cask lots is $8.25 per 100 lbs.; price of broken lots is $8.75.

Pig Lead—$4.50 per 100 lbs.

Iron Pipe—We quote:

Black iron pipe, ⅛ inch	
" ¼ "	2 45
Black iron pipe, ⅜ inch	2 65
" ½ "	3 00
" ¾ "	3 80
" 1 "	5 50
" 1¼ "	7 45
" 1½ "	8 90
" 2 "	12 30

Petroleum—No change in price. We quote:

Silver Star, per gal	20½c.
Sunlight "	21½c.
Eocene "	23½c.
Pennoline "	24½c.
Crystal Spray "	23½c.
Silver Light	21½c.

(In barrels f.o.b. Winnipeg.)

Paris Green—In seasonable demand. We quote:

English Paris Green—Petroleum barrels, 14 1-4c.; arsenic kegs, 14 1-2c.; 50 and 100-lb. drums, 15c.; 25-lb. drums, 15 1-2c.; 1-lb. tins, 17c.; 1-2-lb. tins, 19c.; 1-lb. cardboard boxes, 16c.; 1-2-lb. ditto, 18c. Terms 2 per cent. off for cash in 30 days; 90 days net.

Canadian Paris Green—50-lb. drums 17c., bulk 18c.; in 1-lb. packages 20 cents.

Paints and Oils—Turpentine has been reduced 10 cents per gallon, the change going into effect last Saturday. Linseed oil is steady. General lines of paints and colors are moving freely. We quote:

White lead (pure)	$5 00 to $5 50
Bladder putty, in bbls	0 02½
" " in kegs	0 02¾
Turpentine, pure, in barrels	$ 1 00
Less than barrel lots	1 05

THE GREAT WEST WIRE FENCE CO., Limited

Sole Owners for Dominion of Canada for Rankin Patent Wire Lock



Patented June 30th, 1903

Office and Factory
76-82 LOMBARD ST.,

Manufacturers of

Railway, Farm, Lawn and Ornamental Fences

Field erected type and all made of No. 9 Hard Coiled Steel Wire. Easily erected and sold in quantities to suit purchaser. Liberal discounts to dealers handling our goods. Also manufacturers of

Steel Farm and Lawn Gates

and dealers in fencing tools of all descriptions.

WINNIPEG, Manitoba

FOR **STORAGE** IN **WINNIPEG**

Handling and reshipping of goods. Brick warehouse with track facilities

MACKENZIE BROS. WRITE 244 PRINCESS ST. OR P.O. BOX 579 **WINNIPEG.**

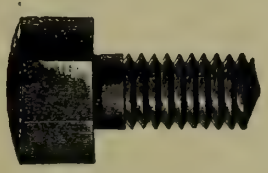
WIRED GLASS

The use of which is past the experimental stage, and is now recognized as a necessity by up-to-date business men.

Money saved is money made, and WIRED GLASS will save you money on INSURANCE. Samples and Particulars on Application.

ASK FOR VEST POCKET MAP OF MANITOBA

THE WINNIPEG PAINT AND GLASS CO., LIMITED
WINNIPEG, CANADA



THE JOHN MORROW MACHINE SCREW COMPANY, Limited

Manufacturers of

Set and Cap Screws, Special Milled Work, Engine Studs Etc. Cold Punched Nuts of every variety of finish.

INGERSOLL, ONT.

OUR AGENTS

MESSRS. WAYLAND, WILLIAMS & DADSON
28 BOARD OF TRADE BUILDINGS, MONTREAL

are carrying a stock of our goods and will be pleased to have your inquiries for **Hex.** and **Square Cap Screws, Square Head Set Screws, Bright Washers,** and **Bright** and **finished Hex. Nuts.** The quality is right, and we can give you good deliveries

ACME LATHE & PRODUCTS CO., LTD.
MANCHESTER.

YOU, US AND THE OTHER FELLOW

No Sentiment in Business

There can be Trade without much BUSINESS about it.

Our classified article list of Industrial Products is a book of information. It tells you where articles are manufactured, what the articles are made of, and the uses they are put to. THE CITY MAN KNOWS all about it, DO YOU? Cloth bound, 400 pages, price $2.00. Ask us the price of our Canadian Industrial Blue Book for the next 30 days.

The Manufacturers List Co., - - - Toronto.

CONDENSED OR "WANT" ADVERTISEMENTS.

YEARLY CONTRACT RATES.

100 words each insertion,	1 year		$30 00
" " "	6 months		17 00
" " "	3 months		10 00
50 " "	1 year		17 00
" " "	6 months		10 00
25 " "	1 year		10 00

BUSINESS CHANCES.

IF you wish to buy or sell a business anywhere in Western Canada, it will pay you to communicate with us. We have some good legitimate propositions on our list; handle nothing else. Address The Business Brokers, 611 McIntyre Block, Winnipeg, Man. (tf)

MANUFACTURERS' AGENT WANTED.

A LARGE firm of bedstead manufacturers in Birmingham, Eng., are open to engage an agent in Canada for the sale of their goods. Address Box 254, HARDWARE AND METAL, Toronto. (tf)

BUSINESS FOR SALE.

HARDWARE business on Main Line C.P.R. in Manitoba. Stock fixtures $9 000. Solid stone store $3,500. Terms: Half cash, balance on easy payments. Purchaser can lease store if preferred. This is an old and well established business, paying handsome profits. Good reason for selling. For full particulars apply Box 256 HARDWARE AND METAL, Toronto. (24)

SITUATION VACANT.

WANTED—Tinsmith for eavetroughing and furnace work; state wages. H. Andrews, Orillia, Ont.

TRAVELER WANTED.

A MIDDLE-AGED gentleman of good address is wanted to call on the trade in Ontario. No samples to carry. A very good opening for a retired or retiring general merchant who desires a light, healthy occupation with good remuneration if successful. Give references. Box 260 HARDWARE AND METAL, Toronto. (25tf)

PITCH FOR SALE.

ONE carload hard carbon pitch now in our warehouse. Canadian General Electric Co., Limited, Peterboro'. (28)

SEALED TENDERS addressed to the undersigned and endorsed "Tender for Toronto Island Breakwater Extension," will be received at this office until Tuesday, July 4, 1905, inclusively, for the construction of an extension to the Breakwater on South side of Toronto Island, City of Toronto, in the County of York, Ontario, according to a plan and a specification to be seen at the office of the Resident Engineer, Confederation Life Building, Toronto, at the office of C. Desjardins, Esq., Clerk of Works, Post Office, Montreal, and at the Department of Public Works, Ottawa.

Tenders will not be considered unless made on the printed form supplied, and signed with the actual signatures of tenderers.

An accepted cheque on a chartered bank, payable to the order of the Honourable, the Minister of Public Works, for seven thousand dollars ($7,000,00), must accompany each tender. The cheque will be forfeited if the party tendering decline the contract or fail to complete the work contracted for, and will be returned in case of non-acceptance of tender.

The Department does not bind itself to accept the lowest or any tender.

By order

FRED. GELINAS,

Secretary.

Department of Public Works,

Ottawa, June 3, 1905.

Newspapers inserting this advertisement without authority from the Department will not be paid for it. (24)

Linseed oil, raw		0 62
Boiled		0 65

Window Glass—No further changes. We quote:

16-oz. O.G., single, in 50-ft. boxes—	
16 to 25 united inches	$2.40
26 to 40 "	2.65
16-oz. O.G., single, in 100-ft. cases—	
16 to 25 united inches	4.25
26 to 40 "	4.50
41 to 50 "	5.00
51 to 60 "	5.50
61 to 70 "	6.00
21-oz.C.S., double, in 100-ft. cases—	
26 to 40 united inches	7.35
41 to 50 "	8.40
51 to 60 "	9.45
61 to 70 "	10.50
71 to 80 "	11.55
81 to 85 "	12.60
86 to 90 "	14.75
91 to 95 "	17.30
96 to 100 "	

BUSINESS END OF THE PLUMBING TRADE.*

WHEN we engage in business we do so for the purpose of making money. We are not in business for our health, although that is possibly about all that some people get out of it. Nor are we in business for the health of our customers, however much we may talk about the interest we take in their welfare. We look after their health by the work we do, because we feel that it is to our interest to do so, because it is good business and because it is right that we should do so.

Why does the journeyman plumber leave the ranks of the union and engage in business for himself? Why do the railroad clerk, the dry goods clerk, the steam fitter and others leave their work and identify themselves with a practical journeyman and hang out their sign, "Sanitary Plumbing?" It is because they hope and expect to increase their yearly income.

Now, this question presents itself: Do these people accomplish the desired result? Do they receive more for their time or do they not only fail in their object, but also assist in decreasing the income of some others who are engaged in a like business? I believe in a large number of cases—in fact, I might say in the majority of cases—they do not "make good," and a journeyman plumber with steady employment has more to his credit at the end of the year than they, and certainly less to worry about. I have had men who have been in business for years tell me they made during the past year $15 per week, and at the end of the year had about $150 worth of material on hand. They spoke of it as though it was a pretty good record.

Is it because of the keen competition, because of the lack of protection, because there is not the opportunity to make money in the plumbing business that there formerly was, or is it because there is a lack of business judgment in the conduct of the business? We can hardly say it is because of keen competition, because where competition is greatest some succeed and some fail. It is not because of lack of protection as there is not a business in existence to-day enjoying better protection than ourselves; nor is it because of lack of opportunity, for in these times of general prosperity if we do not make money we never will. I believe the reason for our failure to realize the desired results is because we do not use the same amount of business judgment in our business as other successful business men do in theirs.

How many men engaged in the plumbing business, or, I might say, how many men here to-day, who I believe are the best representatives of the plumbing trade, know the amount of their expenses each year and consider that item in making prices on work? How many of you know when you have finished a contract whether you have made or lost money on that work? How many of you know, when you figure $100 labor on a job, whether it costs you $70 or $125 to do that work? How many of you realize that promptness in keeping an engagement, that prompt attention to correspondence, are assets in your business? How many of you have discovered that cheap material is poor economy? How many of you render your bills and give that attention to your collections that your jobber gives to your account? These items all go to make up a successful business, and by a successful business I mean a business that enables the owner to get from it for his own use a fair and just compensation for the time, money and energy he puts into it.

See Work Rather Than Profit.

From my observation of a great many people engaged in the plumbing business it would seem that their prime object was to secure a large amount of work. The question of profit apparently did not interest them. Their idea of success in business seemed to be a large amount of gross sales; in other words, they wanted to be able to say "I am it. I control

*Paper read by E. B. Hazen, Peoria, Ill., before the National Association of Master Plumbers, at Atlanta, Ga., June, 1905.

Are you handling our



STEEL FEED TROUGHS?

If not we can make you an interesting proposition as our NEW TROUGH CATALOGUE and other literature are now ready to assist the trade. We supply you liberally with them and give exclusive agency. Let us hear from you.

STEEL TROUGH & MACHINE Co., Limited
TWEED, Ontario

TORONTO ISLAND BREAKWATER EXTENSION. Intending contractors will please take notice, that in addition to the steel piling mentioned in the specification for the extension of the Toronto Island breakwater, the Department of Public Works will also receive separate tenders to construct the work with the steel piling manufactured by the United States Steel Piling Company, 135 Adams St., Chicago, Ills. One cheque only need accompany the two tenders.

By Order,

FRED. GELINAS,

Department of Public Works. Secretary.

Ottawa, June 22, 1905.

Newspapers inserting this advertisement without authority from the Department, will not be paid for it. (25)

the business in this town." "You take the stockholders of a corporation and give them at the end of the year a statement of the business and what do they look at first, the gross sales or the net profits? The point that interests them is the net profits; the total sales are a secondary consideration. A statement showing total sales of $100,000 and net profits of $10,000, is vastly more important to them than a statement showing total sales of $200,000 and net profits of only $8,000.

Now, you say it is an easy matter to find fault, to tear down, to point out defects in our system, but what we want is a remedy. I agree with you that the one point we want to make is how to increase the net profits. This must be done in one or two ways—either get more money for our work or cut down our expenses of doing business.

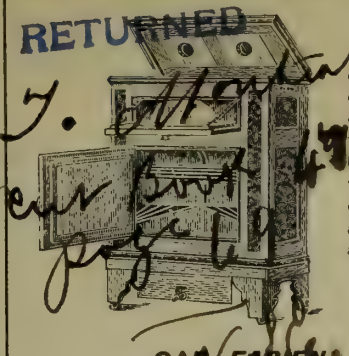
Reasons For Doing Work Too Cheaply.

Admitting that we all take work at times that is too cheap, let us note a few of the reasons for doing this. Did you ever hear of a person who, when work was light during the Winter months, figure jobs at a very small margin of profit and secured a very large amount of work, only to discover that when the work was ready for his men there was a large amount of other work that he might secure at a good margin of profit were he in a position to handle it? Did you ever figure a contract at a close margin because it was just ready to put your men on and because you had the men you could use on that particular work, and then find out just after you had closed the deal that you had two or three other contracts that were also ready for your men? Did you ever think that by taking the job to-day at a low price you were only sharpening the appetite of your competitor, who would take the job to-morrow at a still lower figure, when, as a matter of fact, if you had let him have the job of yesterday at a reasonable price you might have secured the work to-day at a better price? Did you ever complete a contract that you had taken too low and find out that your customer's neighbor had a job of the same nature, which you were either compelled to take at the same figure or not take at all? Did you ever imagine that in order to secure a certain contract you would have to figure less than a reasonable profit, and after you had closed up the work at a low figure find that your customer had no intention of letting the work to any one else, and, in fact, had not asked for figures from your competitor?

Don't Figure Under a Fair Profit.

The point I wish to make is that it rarely pays to figure work at less than a fair and reasonable profit. When you do you are doing something that is not necessary; you are hurting your chance of making something of future work or you are setting a pace for your competitor which he feels he must adopt. Let us as business men know our business; not just the practical end of it, but, what is more important, the business end of it. Let us demand that our business net us a fair return for our time. Let us know what net profit this or that contract brings to us. Let us realize that the office end of our business is fully as important as any other department. To do this will require some detail work and not a little time and attention from the manager.

REFRIGERATORS



Up-to-date dealers buy our lines because our refrigerators are unequalled for their finish, construction and general appearance. Write for Catalogue.

C. W. FABIEN
Refrigerator Manufacturer
MONTREAL, - - CANADA

Bolton, Fane & Co.
98 Leadenhall Street, London, E.C., Eng.

TINPLATES

In all qualities and sizes

Bessemer Coke	"Lofoden" Brand
Seimens Coke	"Pelican" Brand
Charcoal	"Mocha" Brand
Best Charcoal	"Cardigan" Crown Brand
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Galvanized Sheets	"Pelican" and "Ostrich" Brands

Boiler Plates, Rails, Fishplates, &c., &c.

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Are you interested in any of the lines that are advertised?
A Post Card will bring you price list and full information.
Don't forget to mention Hardware and Metal.

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UPHOLSTERY SPRINGS, CARRIAGE SEAT SPRINGS, HELICALS, BRAKE POLE, ETC.

Oil Tempered Wire—All Kind

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Agent for T.W. & J. WALKER, Wolverhampton



You Can Look
ANY WAY YOU LIKE AT
The Tarbox Mop Cloth

You will always find it "Made to Last." It has qualities quite independent of the mop—is adapted to either **THE TARBOX SELF-WRINGING MOP** or any other mop. It's the woman's friend.

Your Jobber Sells Them.

TARBOX BROS., Toronto

IRONSIDE FOR IRON

OUR SPECIALTIES ARE BRITISH AND FOREIGN **IRON, STEEL, METALS, BARS, PLATES, SHEETS, BOLTS and NUTS, TIN PLATES, Etc.**

Sole Licensees for **PAGE'S PATENT WIRE STRETCHER,** and we are willing to sell the right of manufacture in Canada on a Royalty basis.

IRONSIDE'S PATENT WIRE CUTTERS, guaranteed to cut any wire

We publish a "Canadian Metal Price List" monthly. Quotations in Dollars and Cents. (C.I.F.) We will send this, and our "Weekly Market Report" on receipt of address.

IRONSIDE, SON & CO., 16 Water Lane Gt. Tower St., E.C **LONDON, ENG**

PAINT, OIL AND BRUSH TRADES

ENGLISH OIL AND TURPENTINE MARKETS.

THE London seed market has fluctuated within a narrow range of late, and the statistical position over there still favors high seed prices, the quantity afloat for London the 1st of June being 316,000 quarters, as compared with 338,000 quarters last year. Imports into London from January 1st to June 1st, 1905, were 265,854 quarters, compared with 361,926 quarters in the corresponding period last year.

The London linseed oil market is 33 1-3 per cent. higher this year than last, and is close up to the high prices of 1903. Last mail quotations are £20 5s per ton, as compared with £15, 12s. last year, and £22, 15s. in 1903. This shows a big advance over last year, and the strength of the market is not confined to spot oil but extends to the September and December option, which is quoted one shilling higher than the spot. This argues no lack of faith on that side in the Fall oil market.

Regarding turpentine the Ironmonger says: "The evidence is accumulating that the combined American producers are carrying out the threat with which they attempted to frighten the trade last year. They then said that for our 1905 supplies we should have to pay about £50 per ton. Since we last wrote the price has moved from £43 10s. to £54, the greater part of the rise occurring since May 10. It seems probable that there may be some little reaction, which may possibly come about before these words are printed; but there can be no doubt that the Americans have a firm hold on the market. The quotation as we write is the highest that has been known in modern times, and should stimulate considerably the sales of substitutes and of Russian spirit. For delivery over the second half of this year American turpentine can be bought at about £4 per ton discount, but the price is too high to allow of any safe arrangements for the future. There would appear to be only one hope for the consumer, and that is in combination to effect a steady reduction in the use of American spirit. At present the controllers of supply have got the consumer by the throat, and it seems that they mean to extort from him the last farthing."

PAINT SEASON WINDOWS.

THIS is the time of year that paint windows should be up in front. All-the-year-round paint windows are desirable; March, April, May, June, September and October paint windows are a necessity. June's as necessary as any, and perhaps you can run over into July if your season is late. But keep it up in June at any rate.

Windows always advertise you. Unless you nail up the shutters and close your store you can't prevent the windows from advertising your business. They advertise it either as a live, up-to-date, successful store, or as slow, careless, unsuccessful.

Good windows, well dressed and frequently changed, are trade winners. Poor windows, overcrowded and always looking just about the same, are trade losers.

I used to be in the retail business, and I know what can be done with windows. I know that it pays to give more attention to them and the appearance of the store front than any other detail next to the proper selection of stock and the training of clerks.

Inviting windows, accommodating clerks, and good, honest merchandise, are the three things I would want first of all in my store to-day. I put the windows first, the clerks next and the goods last, because that's the order in which customers run up against them. If my competitor has as good as I have on the last two, but neglects his windows, I can beat him out every time.

It's surprising what an effect it has on everything else in the store if you're taking pains with the windows. I hadn't done any newspaper advertising until I began to get my hand into the way of good advertising by practice on the windows. I hadn't appreciated the real value of pushing seasonable goods until I learned it from window experience. I hadn't known what enthusiasm and pride in your business can do for you until I got the window habit.

Another thing that window dressing taught me was to keep my eyes open and try to find out from the windows of my competitors what they were doing. It wakened me up to a keen spirit of friendly competition that kept me stirring.

Get the window habit. There's bigger business for you in it.—From the "S.W. P.," published by the Sherwin-Williams Paint Co.

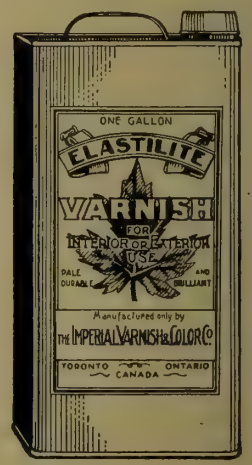
TO MAKE STRONG GLUE.

To make a special glue of great tensile strength from 1 to 20 per cent. of zinc oxide is added to the hot solution of glue, and after well agitating the liquor is passed through a sieve and cooled in moulds. It is claimed that the resulting glue, which is white and opaque, has a tensile breaking strength 20 per cent. greater than that of ordinary glue, while size prepared from it has a resistance to moisture 30 per cent. greater than ordinary glue size.

YOU MAY NOT GET IT ALL,

but you can get more business than you are now getting if you stock Elastilite Varnish.

Equally good for outside or inside. Its quality pleases the people.



The Imperial Varnish & Color Company, Limited

Toronto, Ontario, Canada

STOCKS AT

WINNIPEG, MAN., care Mason & Hickey.

VANCOUVER, B.C., care Durand Merchandise Company.

If You Buy

Varnishes **Paints**
Japans **Colors**
Lacquers **Glues**
Stains **Bronzes**
Fillers **Chamois**
Sponges

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R. C. JAMIESON & CO.

LIMITED

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AGENTS FOR ASPINALL'S ENAMEL

IMPERIAL FRENCH GREEN

is preferred by skilled painters because of its fineness of texture, covering capacity and great durability. Acknowledged to be more permanent than Nature's Greens.

Insist on it once and you will always use it.



Be sure this label is on the can and take no other. See sample cards.

JOHN LUCAS & CO., MFRS.,
PHILADELPHIA, NEW YORK, CHICAGO.

MACARTHUR, CORNEILLE & CO., MONTREAL

TRADE
PENBERTHY
MARK.

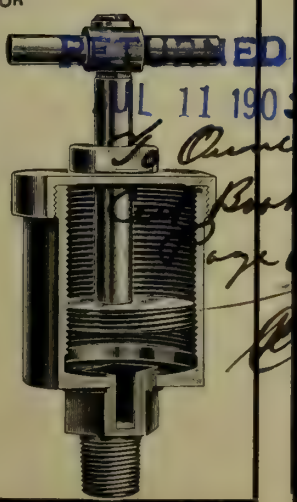
ALWAYS RELIABLE



AUTOMATIC INJECTOR

Our "SAMSON" SCREW COMPRESSION GREASE CUP

Made of best red metal
In 5 sizes
Is a positive feed and will stand lots of hard usage
Be sure it's a PENBERTHY



RETURNED
JUL 11 1905

There is Adequate Reason for Buying

SKEDDEN BRUSHES



Known everywhere, used everywhere all **good** brushes stamped "Skedden." Our catalogue will give you the list.

The Skedden Brush Co., Limited,
Hamilton, Ont.

Toronto Office—57 Queen Street East.
Phone Main 3431. F. W. KNIGHT, Agent.

Brandram's B.B. Genuine White Lead

BRANDRAM BROS. & CO. BRANDRAM'S B.B. WHITE LEAD MANUFACTURERS LONDON ENGLAND

has long been known as the best white lead the world produces. It is unequalled for

WHITENESS, FINENESS and BODY

and will cover more surface than any other white lead made. It is the only white lead used in

ANCHOR or ENGLISH LIQUID PAINTS

making them the leaders on the market.

Manufactured by

HENDERSON & POTTS, Limited
HALIFAX and ST. JOHN

HENDERSON & POTTS CO., LIMITED
MONTREAL and WINNIPEG

Paint and Oil Markets

QUEBEC.

Office of HARDWARE AND METAL,
232 McGill street,
Montreal, June 23, 1905.

ACTIVITY is noticeable everywhere in the paint and oil markets. Local manufacturers are very busy and orders are coming in freely from all parts. Paris green is selling very freely owing to the appearance of the potato bug. Turpentine has gone away down, a decline of 7 to 8c. taking place for different grades. Following the decline of 5c. last week this makes a serious drop for turpentine. Foreign buyers are still dominant in the market. Linseed oil remains steady. White lead is in strong demand everywhere.

Canadian Paris Green — Barrels, 15 1-4c.; arsenic kegs, 15c.; 50 and 100-lb. drums, 16c.; 25-lb. drums, 16 1-2c.; one pound packages, 17c.; half-pound packages, 19c.; one pound tins, 18c. Terms 2 per cent. discount for cash in 30 days or 90 days net.

English Paris Green—Pure English Paris green, petroleum barrels, 15 1-4c.; arsenic kegs, 15 1-2c.; 50 and 100-lb. drums, 16c.; 25-lb. drums, 16 1-2c.; one pound paper boxes, 17c., one pound tins, 18c.; one-half pound paper boxes, 19c.; one-half pound tins, 20c. Terms, 2 per cent. off thirty days, or ninety days net from date of shipment.

Turpentine—Single barrels 93c. per gallon; two to four barrels, 92c. per gallon. For smaller quantities than barrels, 5c. extra per barrel is charged. Standard gallon is 8.40 lbs. f.o.b. point of shipment, net 30 days.

Linseed Oil—Raw, one to four barrels, 52c.; five to nine barrels, 51c.; boiled, one to four barrels, 55c.; five to nine barrels, 54c. f.o.b. Montreal., Net 30 days.

Ground White Lead — Best brands Government standards, $4.70 to $4.85; No. 1, $4.45 to $4.60; No. 2, $4.20 to $4.35; No. 3, $3.87 1-2 to $3.97 1-2; No. 4, $3.50 to $3.60, all f.o.b. Montreal.

Dry White Zinc—Pure dry in casks, 7c.; in 100 lb. kegs, 7 1-2c.; No. 1 zinc, in casks, 6c.; in 100-lb kegs, 6 1-2c.

White Zinc (ground in oil)—Pure. 25 lb. iron, 7 1-2 to 10c.; No. 1, 6 1-4c.; No. 2, 5 1-4c.

Putty—Pure linseed oil $1.75 to $1.85. Bulk in barrels, $1.50; in 25-lb. irons, $1.80; in tins, $1.90; bladdered putty in barrels, $1.75.

Orange Mineral—Casks, 7 1-4c.; 100-lb. kegs, 7 1-2c.; smaller quantities, 8 1-2c.

Red Lead—Genuine red lead in casks, $4.50; in 100-lb. kegs, $4.75; in less quantities at the rate of $5.75 per 100 lbs.; No. 1 red lead, casks, $4.25; kegs, $4.75, and smaller quantities, $5.50.

Shellac Varnish — Pure white in barrels $2.30 to $2.50; pure orange, $2 to $2.20; No. 1 orange, $1.90 to $2.10.

Mixed Paints—$1.20 to $1.40 per gallon.

Castor Oil—8 3-4c. to 9 1-4c. in wholesale lots, and 1-2c. additional for small lots.

Litharge—Ground, in casks, 5c.; in less quantities, 5 3-4c.; flake litharge, casks, $5.50; smaller quantities, $6 per 100 lbs.

Refined Petroleum—No change has occurred on this market. Prices are steady. Our quotations are: American prime white 14 1-2c., American water white 16c.

ONTARIO.

Office of HARDWARE AND METAL,
Front street east,
Toronto, June 23, 1905.

ANOTHER drop in turpentine is the most noticeable feature of the week, the ruling quotation now being $1. per barrel, although some quotations are made as low as 95c. The market in the south is still erratic, but it seems to have broken for good, and conditions are likely to ease off from now on. No new stock has arrived as yet, but some should be received during the coming week. Linseed oil keeps firm at the same prices, no heavy imports having been made as yet.

Paris green is lively, ginger having been put into buyers by the arrival of the potato bug pest. Mixed paints keep up the warm pace which has been the feature during the past few weeks. The volume of business being done is very large.

White Lead—Ex Toronto, pure white lead. $4.75; No. 1, $4.37 1-2; No. 2, $4; No. 3, $3.62 1-2; No. 4, $3.35 in packages of 25 lbs. and upwards; 1-2c. per lb. extra will be charged for 12 1-2 lb. packages; genuine dry white lead, in casks, $4.25.

Red Lead—Genuine in casks of 560 lbs., $4.50; ditto, in kegs of 100 lbs., $4.75; No. 1, in casks of 500 lbs., $4 to $4.25; ditto in kegs of 100 lbs., $4.50.

White Zinc—Genuine French V. M., in casks, $6.50 to $7; Lehigh, in casks, $6 to $6.50.

Shingle Stain—In 5-gallon lots 57 to 90c. per gallon.

Paris White—90c. to $1 per 100 lbs.

Whiting—60 to 65c. per 100 lbs.; Gilders' whiting, 75c.

Shellac Varnish — Pure orange in barrels, $2.60 to $2.80; white. $2.65 to $2.90 per barrel; No. 1 (orange), $2.25.

Linseed Oil—Our quotations are: Raw, 1 to 4 barrels, 56 to 57c.; boiled, 59 to 60c.; 5 to 9 barrels, raw, 55 to 56c.; boiled, 57 to 58c.; Toronto, Hamilton, London and Guelph, net 30 days. Advance of 2c. for delivery to outside points.

Turpentine—Single barrels, 95c. to $1; 2 to 4 barrels, open; 5 barrels

Good, Stable Lines

There is a uniform call and demand for

Gold Paint, Silver Paint

for artistic decorations of all descriptions. Our stock is neatly packed, ready mixed, all ready to apply, and the paints are of a beautiful and permanent lustre. Prices and quantities on request.

THE STANDARD PAINT & VARNISH WORKS CO., LIMITED, Windsor, Ont.



"The Tool Holder People"

Armstrong Bros. Tool Company

Manufacturers of Armstrong Patent Lathe and Plan Tools and other machine shop specialties.
617-621 Austin Ave., CHICAGO, ILL.

Subscribe to the

OIL AND COLOURMAN'S JOURNAL

for news of the British Oil, Paint, Soap, Varnish Chemical and Drysaltery Trades.

Subscription for Canada, $2.00 per year from date, post free. Sample for 10 cents.

SCOTT, GREENWOOD & CO.
19 LUDGATE HILL - LONDON, ENG.



A Popular, Profitable and Seasonable Line to Handle.

Dennis' Flexible Steel Wire Door Mats

DENNIS WIRE AND IRON CO.
Send for Catalogue. LONDON, ONT

McCaskill, Dougall & Co.

Manufacturers

RAILWAY, CARRIAGE AND BOAT **VARNISHES.**
HIGH-GRADE FURNITURE and HOUSE VARNISHES
MONTREAL.

Get your GLUES from

The GROVE CHEMICAL CO., Limited
Appley Bridge, Lanc, England.

Our ordinary grades are better than ordinary, and we can supply special makes for special purposes. SCOTCH GLUES, BOX GLUES, COLOGNE GLUES for Paper Makers. Size of all kinds. Send your name for our printed matter

If All the Users of Our

METALLIC ASH-SIFTER

were to march in line they would make a long procession. They must have got these sifters somewhere. Why not from you! Here is a right royal chance. If you merely write we will send you prices and illustrated circular.

C. M. CUTTS & CO., Sole Makers, **Toronto Junction, Ont.**

NOW IS THE TIME

that you should pay particular attention to your paint stock. Possibly it is not selling as well as it might. Have you inquired into the matter?

FIRST CHAPTER

ISLAND CITY BRAND OF PAINTS, when used on a house or a floor, is guaranteed to dry in eight hours.

ONCE USED ALWAYS USED

LAST CHAPTER

OWING to its lasting and drying qualities, it is bound to satisfy your customers and thereby increase your sales.

P. D. DODS & CO.

MONTREAL, VANCOUVER
WINNIPEG, TORONTO

CANADA PAINT

THE CANADA PAINT COMPANY, LIMITED

HEAD OFFICE AND WORKS
William Street
MONTREAL, Quebec

OXIDE MINES
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(near) ST. JOHN,
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VARNISH FACTORY
TORONTO, Ontario

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WINNIPEG, Manitoba

THE LARGEST SHIPPERS OF PAINTING MATERIAL IN THE DOMINION OF CANADA.

All communications should be addressed to

THE CANADA PAINT COMPANY LIMITED
MONTREAL CANADA

and over, open, f.o.b. point of shipment, net 30 days. For less quantities than barrels. 5c. per gallon extra will be added, and for 5 gallon packages, 50c., and 10 gallon packages 80c. will be charged.

Paris Green—600 lb. barrels, 13 1-4c.; 250 lb. kegs 13 1-2c.; 50 lb. drums, 14 1-2c.; 1 lb. packets, 15c.

Glues—Broken sheet, in 200 lb. barrels, 5 to 25c. per lb.; cabinet glue, in barrels, 11 1-2 to 12c.; emery glue, in barrels, 15c.; bookbinders' ground, 11 1-2c.; finest American white, 19c.; No. 1 American white, 15c. per lb.

Putty—Ordinary, bladders in barrels. $1.65 to $1.75; pure linseed oil, $2 to $2.10; bulk in barrels, $1.50; pure, $1.95 to $2; 100-lb. kegs 25c. extra.

Plaster Paris—New Brunswick, $2 per barrel.

Liquid Paints—Pure, $1.20 to $1.35 per gallon; No. 1, $1.10 per gallon.

Barn Paints—70c. to 80c.

Bridge Paints—75c. to $1.

Castor Oil—English, in cases, 8 1-2 to 9c. per lb., and 10c. for single tins.

Refined Petroleum—A normal business is being done. We quote: Water white, 16c.; Canadian prime white, 14 1-2c.; American water white, 16 1-2c. to 18 1-2c. ex warehouse.

Crude Petroleum—Conditions are unchanged. We quote: Pennsylvania, $1.29; Ohio, 84c.; Somerset, 81c.; Indiana. 88c.; Canadian, $1.27.

Glass—See current quotations at the end of this issue.

WINDOW GLASS—MONTREAL.

No change has taken place in the window glass market. The reported settlement of the strike in Belgium has not in any way affected prices. The advice to retail merchants, given last week, regarding the placing of orders at once, if they had not already done so, is again accentuated. Small shipments continue to arrive from Belgium, but there is no abundance of the sizes desirable to suit the demand. Our quotations are as follows: First break, 50 feet, $2.00; second break, $2.10; first break, 100 feet, $3.75; second break, 100 feet, $3.95; third break, 100 feet, $4.50; fourth break, 100 feet, $4.75; fifth break, 100 feet, $5; sixth break, 100 feet, $5.50; seventh break, 100 feet, $6.00; and eighth break, 100 feet, $6.50. Diamond star, first break, 50 feet, $2.30; second break, 50 feet, $2.50; first break, 100 feet, $4.40; second do., $4.80; third do., $5.75; fourth do., $6.50; fifth do., $7.50; sixth do., $8, and seventh do., $9. Double thick, first break, 50 feet, $3.45; second do., $3.75; first break, 100 feet, $6.75; second do., $7.25; third do., $8.75; fourth do., $10; fifth do., $11.50; sixth do., $12.50; seventh do., $14; eighth do., $16.50; ninth do., $18; tenth do.. $20; eleventh do., $24, and twelfth do., $28.50.

WOOD TURPENTINE IN FINLAND.

ACCORDING to Sundwiks considerable quantities of oil of turpentine are now produced in Finland by a method of dry distillation, in which the split pine timber is gradually heated in cast-iron retorts. Tar is the chief product, but a considerable amount of crude turps is also obtained of a very dark color, but easily rectified, by redistillation, to colorless, highly refractory turpentine, though it is distinguishable from the ordinary kind by its tarry smell. In addition it differs from ordinary turps in several points of chemical behavior, being incapable of absorbing oxygen (owing to the firmer combination of the atomic groups in the molecule), detecting haemoglobin and unsuitable as an internal remedy in case of phosphorus poisoning. It answers to the guaiacol reaction but rarely in the presence of blood, and then only slowly and faintly; neither will it produce coloration in fresh milk under similar conditions, or fulminate in the presence of iodine.

THE TURPENTINE TRADE.

This has been another week of successive advances in the values of spirits turpentine. The American demand has been far ahead of last Spring, and the outlook is for one of the best years the trade has known in this country. This, coupled with the smaller supplies as compared with last year, owing to the backwardness of the Spring, was largely responsible for the strong condition of the market. The receipts at Savannah continue much smaller than last year to this time, the net receipt to this date being but 13,253 casks, against 20,082 casks last year.

In rosins the upward tendency also continues to manifest itself very strongly, and at the advanced prices the market was kept well cleared of supplies, it being apparent that even larger offerings could have been disposed of.—Journal of Trade, Savannah.

ABSORPTION OF OIL BY PIGMENTS.

A British manufacturer has reported to the Oil and Colourman's Journal the following results of experiments in the absorption of linseed oil by pigments in the process of grinding to paste forms: One cwt. of burnt umber took 93 lbs. of oil (83 per cent.); one cwt. raw umber 74½ lbs. of oil (64.4 per cent.); one cwt. of burnt sienna took 104 lbs. of oil (93 per cent.); one cwt. of raw sienna took 128½ lbs. of oil (128½ per cent.)

KOOTENAY POWER & LIGHT CO.

Eight hundred men will be employed for seven months by the West Kootenay Power & Light Co., in increasing their power plant. The company is now selling 4,000 horse-power in Rossland, Trail and Nelson, and the intention is to secure 24,000 horse-power at Upper Bonnington Falls and sell it at Grand Forks, Phoenix and Greenwood. Five hundred miles of copper wire and 10,000 barrels of cement will be used in the construction work.

BOOK REVIEWS.

How to Heat the Home — A fitter's manual of practical information, by Norman Whitelaw, Chicago, Ill. Price, $1.

The work is in two parts, one devoted to steam heating and the other to hot water heating. The opening sentence of the section on steam heating is: "The best system of steam heating for the home is a low pressure gravity return system," and in the section this system is illustrated and described under the following considerations: the boiler, radiators and radiation, valves, pipe systems, pipe and boiler coverings, estimating, installation, fittings, tools. There is specific example of estimating for an 11-room house in which it is to be installed. A one-pipe system of steam heating is worked out with drawings.

The second section deals with hot water heating much in the same way as steam heating is dealt with in the first section.

This is a neatly arranged work, and the style in which it is written is at once clear, simple and interesting. The information, gathered by the author during years of experience in Canada and the States, is arranged in concise form, statements being for the most part sustained by substantial reasons.

* * *

Repair Kinks for Plumbers — A collection of information on repairing modern plumbing fixtures gathered from experience; by Martin L. Kaiser; illustrated; cloth binding, 56 pages, published by David Williams Co., 232-238 William street, New York; sold in Canada by the MacLean Pub. Co., Limited. Price, 50c.

This work is not supposed to be a complete collection of kinks, nor is it claimed that all may not be well known to the experienced, but the information contained in the work will probably enable many of the young plumbers to deal successfully with troubles which might otherwise perplex them. The contents consist of a collection of methods of repairing which are most frequently needed.

The printing is large and easily read, and the illustrations are clear and well chosen. This book should prove of great value to the apprentice, and also to the young plumber.

NEW TORONTO WAREHOUSE.

A new warehouse is to be built on York street, Toronto, by the Canada Brass & Supply Co., until recently known as the Stevens Mfg. Co., London. The factory will remain in London, but in order to supply the increased demand for plumbing supplies the change noted is to be made.

COMING TO CANADA.

The Borden Co., Warren, Ohio, have made arrangements with Armstrong Bros., machinists and die makers, Sheppard street, Toronto, to manufacture their automatic adjustable die for the Canadian market. The die has won favor in the United States, and so great is the company's confidence in the die that they have refused to sell their Canadian patent, and will manufacture it themselves to supply the demand on this side of the line. They are installing jigs and other machinery in the Armstrong Bros. shop.

"Made in Canada"
— for 40 years —
TRADE C MARK

TO THE TRADE

PLEASE NOTE: That every box of Horse Shoe Nails manufactured or sold by us, has our name and registered trade mark (the Gothic letter "C") on same. Any imitation of either on a box of Horse Nails, is illegal, and a penal offence in Canada.

The "C" Brand Horse Nails are sold by us with an absolute guarantee, that every nail is perfect and ready for use, or if found otherwise, they will be exchanged free of cost, or purchase money refunded on application.

Our process of manufacture differs in many respects from other makers, and with better results.

We use exclusively the best obtainable charcoal steel nail rods made especially for our requirements in Sweden, the quality of which has the greatest tensile strength (average 54,000 lbs per square inch) and durability of any material of which we have any knowledge or used in the world for this purpose.

Our nails are of the best proportions according to size and work required; have hardened bevelled points which will penetrate easily into the hardest hoofs, without either split or bend in driving. The heads will not break off in the most severe frosty weather, or from hard usage on hard roads or stone paved streets.

The combination which "C" brand nails have of great toughness and durability, enables the clinch to hold the shoe on firmly until worn out, or its removal is required.

We claim they are not surpassed in quality, pattern or finish by any other horse shoe nails made in the world, and therefore will be found the most economical for the farrier to use, as compared with any lower priced article, made by the "cold process" or of cheaper material.

When asked to purchase "Yankee" second quality nails, now being pushed in Canada, please do not forget that our "C" brand is made in Canada by Canadian labour, and therefore your preference is respectfully solicited by ordering the "C" brand.

We make one quality and have only one price, namely 40, 10 and 7½% discount F.O.B. Montreal.

Canada Horse Nail Company
MONTREAL
ESTABLISHED 1865.

WALL PAPER

HINTS FOR THE SALESMAN.

WITH business brisk in the wall paper department, salesmen should examine closely into their knowledge of useful suggestions for the benefit of the customer. The following ideas should prove useful:

It is not always realized how greatly the atmosphere of a room may be affected by the tones or pattern of its wall-hangings. Even the wall paper has its share in making the home what it should be—the cheeriest spot imaginable.

A room facing the north needs an entirely different treatment from that which faces south. The former will need yellows, warm greens, reds and such colors as suggest warmth, while in the latter cool tones may be indulged in. Tan and warm browns are good for the cooler rooms, whereas the cool tea greens, blues and such shadings are better for the western and southerly aspects.

If a room has many windows it should not have light-colored, bright paper, else the effect will be glaring. And, on the other hand, the room that seldom has any sun in it should be made as bright and cheery as possible by the color of walls and furniture.

When there are dark rooms, as is so often the case with city apartments, the effect aimed at should be one which will appear well by artificial light. An artist in town made an exceedingly attractive room of one of these dark rooms by making it essentially an evening apartment. He used deep cream for the walls and ceiling, with red hangings, pillows and curtains. Gloom was dispelled and cheeriness reigned.

Cartridge paper is generally a wise choice unless the darker colors are chosen in the cheaper grades. If this is done fading invariably results. Pictures always look well against a plain background and there is never a figure to district the weary eye.

NEW PATTERNS IN WALL PAPER.

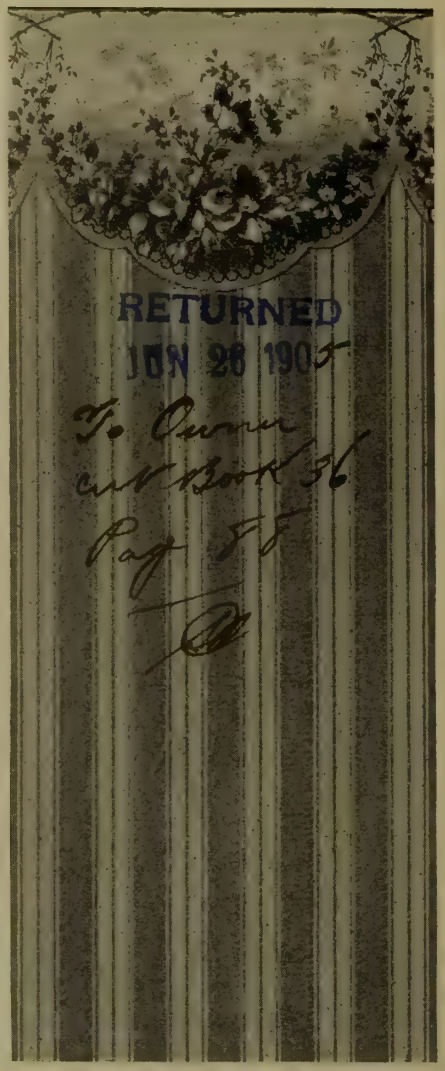
Progressiveness is the all-prevailing feature that will impress itself on those examining the new line of wall papers now being prepared by Stauntons Limited, Toronto, which will be shown to the trade in the course of the next week or two. Work on the new samples has been in full swing for some time, and while at the time of writing there are some finishing touches still to be added, there is abundant evidence to be seen in the samples completed, that the new line will take a very prominent position during the coming year. The designs have been carefully chosen to give a wide variety in style and with a view to covering all the many requirements of present-day decoration. The colorings are novel in treatment and have that snappiness so characteristic of the "Staunton" wall papers.

The accompanying illustration of a stripe with a festoon frieze cut to a scallop shows one of their very effective combinations. This border will be very decorative when used with plain stripes, ingrain papers and small stencil effects in two-tone treatments. Several patterns of a character new to the "Staunton" lines are being shown, and these serve to add additional attractiveness and will bring to the firm many orders for goods that heretofore have been thought necessary to import.

PERSONAL MENTION.

A Winnipeg report states that Lewis Bros., Montreal, are to erect a warehouse at Winnipeg.

Henry Manthorn has sold out his tinsmith business at Liverpool, N.S., to Ernest McLeod, of Brooklyn, N.S.



A Stylish Stripe, Shown in Silk and Two-Tone Treatments with Scalloped Festoon Frieze. Stauntons Limited, Toronto.

Fire did about $3,000 damage to J. Langmuir & Co.'s varnish factory on St. Lawrence street, Toronto, on Tuesday.

Mr. W. C. McFarlane, hardware merchant, Parliament street, Toronto, has returned from a business trip to the States.

P. H. Finkle, tinsmith, 1508 Queen street west, Toronto, has put in a line of up-to-date hardware and household supplies.

Messrs. McLean, Holt & Co., J. L. McAvity, proprietor, have opened a retail store at No. 155 Union street, St. John, N. B.

Mr. Edward C. Bridge, of Bridge Bros., hardware merchants, Thessalon, was married on June 14 to Miss Ethel C. Myers, of Thessalon.

Mr. Charles Smallpiece, of Lewis Bros. & Co., Montreal, spent a few days in Toronto during the past week owing to the serious illness of his mother.

Mr. F. H. Newman, of the firm of Caverhill, Learmont & Co., has returned from his trip to Winnipeg where the firm have fine warerooms. Business out west is flourishing.

L. A. LaPlante, New Toronto, has commenced the erection of a fine new hardware store. The structure will have a 40-foot frontage and the store will be equipped in first-class style throughout.

Mr. A. O. Campbell, representative of Lewis Bros. at Vancouver, was in Montreal this week on his annual trip to the headquarters of his house. Mr. Campbell is looking well and reports great activity on the coast.

Mr. F. O. Lewis, senior member of the well-known firm Lewis Bros., wholesale hardware merchants, has just returned to Montreal from a business trip to Winnipeg, being greatly impressed with the growing west. In chatting with Hardware and Metal, Mr. Lewis was most enthusiastic over the trade possibilities out there. He said that the enthusiasm that prevailed was contagious and everyone seemed to be out for business, and they seemed to be busy all the time.

The firm of Wm. Ralph, retailers of stoves and house furnishings, at 126 Hastings street, Vancouver, B. C., has been incorporated into a limited liability company, under the title of the Wm. Ralph Co., Limited. Mr. Wm. Ralph, who remains in the business, is president, and Mr. F. C. Jones, vice-president, while the other members of the directorate are Messrs. R. F. Ralph, W. J. Jones and W. H. Wilson, the secretary. The business will generally be enlarged. The Messrs. Jones formerly constituted the firm of Jones Bros., of Grand Prairie, B.C.

PRESENTATION TO MR. WIGGS.

MR. W. H. WIGGS, proprietor of the Mechanics' Supply Co., Quebec, before leaving for England on the Manufacturers' Association excursion, was waited upon by his large staff of employes and presented with a very handsome gentleman's travelling case and companion, together with an address wishing him a pleasant trip and a safe return with renewed health and vigor.

Mr. Wiggs, who was taken completely by surprise, made a very neat response, assuring the donors of his deep appreciation of this kindly remembrance of him on the part of his employes, and returning warm thanks for their gift. He said that it showed the good feeling which had always existed in the establishment, a condition of affairs which had always given him the greatest sense of pride. He concluded by again thanking one and all for their mark of good will and wished them all success and happiness.

WALL PAPER

We're just bubbling over with enthusiasm for our 1906 line of wall papers.

Sampling is completed and our travellers will be on the way by the end of the month.

The man to see is the "Staunton" man. The line to order is the "Staunton" line. Wait till we get to you—you'll be enthusiastic too.

STAUNTONS LIMITED

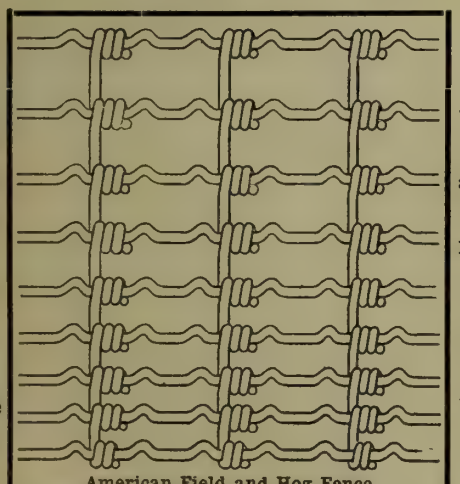
MANUFACTURERS

TORONTO

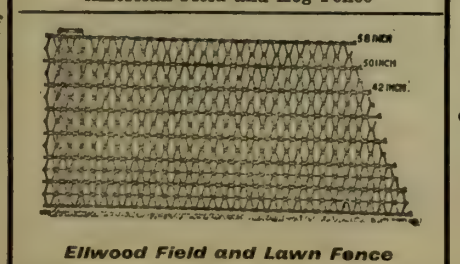
Galvanized Steel Woven Wire Fence

HIGH CARBON

The proof of the pudding is, that more of our Fences are in use than all other makes of Wire Fences Combined



American Field and Hog Fence



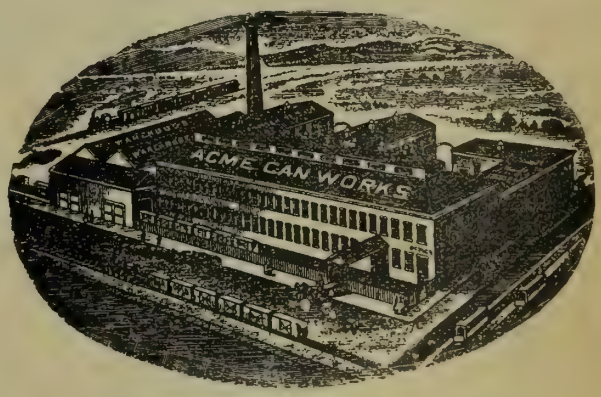
Ellwood Field and Lawn Fence

We call your special attention to our Extra Heavy Fence, all Horizontal Wires No. 9 Gauge. Weighs more per rod, has greater tensile strength than any other Fence on the market

If your Dealers do not handle our Fences write to us

THE CANADIAN STEEL AND WIRE CO., LIMITED

WINNIPEG, MAN. HAMILTON, ONT.



When in Need of Cans, Serve Your Best Interests and Consult Us

Acme Can Works make the largest assortment of any factory in America of **TIN CANS** by the latest up-to-date automatic machinery.

We are the only makers in Canada of **KEY-OPENING MEAT CANS, POULTRY CANS.** They are our specialties.

Manufacturers for Canada of

Jewett's Self-Heating Can.

We solicit inquiries for prices on

Baking Powder, Oil, Syrup, Lye, Paint, Varnish, Condensed Milk, Poultry, Fruit, Vegetable } **Cans** **Lard, Syrup, Butter** } **Pails**

ACME CAN WORKS

Ontario Street East, - - MONTREAL, P.Q.

TRADE INQUIRIES.

Correspondents desiring to get in touch with any of the firms referred to should quote the reference number when requesting addresses. For information write to Superintendent of Commercial Agencies, Department of Trade and Commerce, Ottawa.

758. A Lancashire firm manufacturing emery cloths, glass papers, polishing powder and similar goods, wishes to get into touch with Canadian importers.

759. A Midlands company manufacturing structural iron works, welded steel pipes, steel tanks, steel chimneys and gas plant, would like to obtain a share of Canadian trade.

761. A Cheshire company manufacturing fire bricks and fire clay goods of various kinds is prepared to appoint suitable Canadian resident agent.



RETURNED
JUN 27 1905

Bracket When Folded.

762. A Yorkshire company manufacturing lubricating and other oils, greases, paints, and varnishes and leather lubricants, is prepared to appoint Canadian resident agent.

779. A company manufacturing edge tools wishes to do business in Canada.

780. A company manufacturing bedsteads, tubes, brass cased and other kinds of tubes, would like to get into touch with Canadian importers.

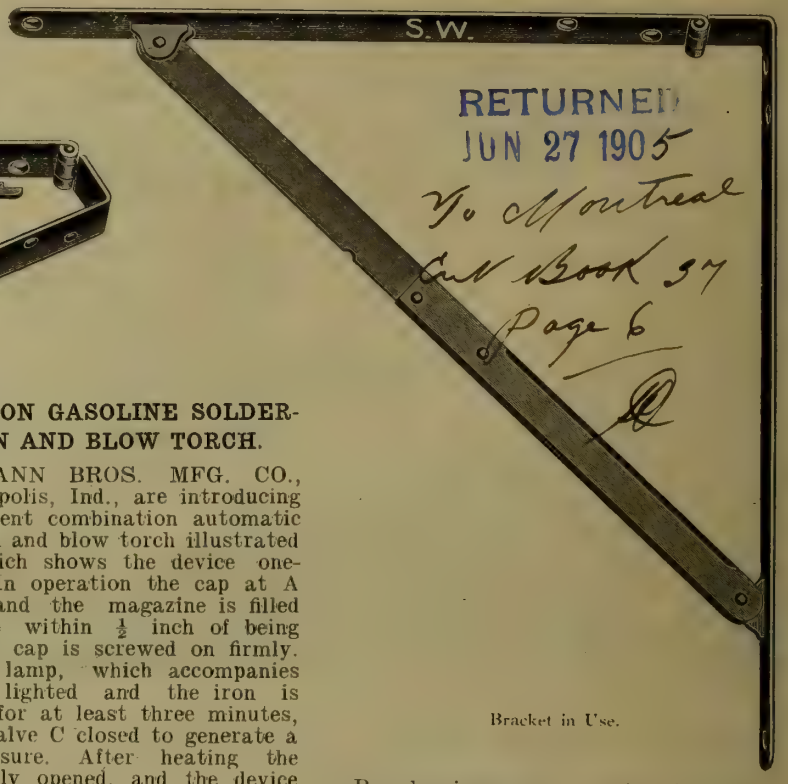
781. A manufacturer of chains wishes to obtain a share of Canadian business.

HEATING CONTRACTS.

Through their agents, Hick & Wakely, of Lethbridge, the Pease-Walden Co., of Winnipeg, have secured a contract for the installation of a "Florence" steam boiler.

The Pease-Walden Co., Winnipeg, are installing a Pease "Economy" steam heater and ventilator in the Masonic Temple in Moose Jaw, N.W.T. The contract was placed through their agents, the Moose Jaw Hardware Co.

bracket, as will be noticed by the accompanying illustrations, is supported on the top and on the lever by a hinge which allows it, when not in use, to fold up, thereby occupying but a small space. It is manufactured of bar steel, and is strongly connected at the joints. This bracket is made in three sizes, namely, sixteen by sixteen inches, twelve by twelve inches, and eight by eight inches. Already a fair enquiry is being received and the prospects respecting future trade are very bright.

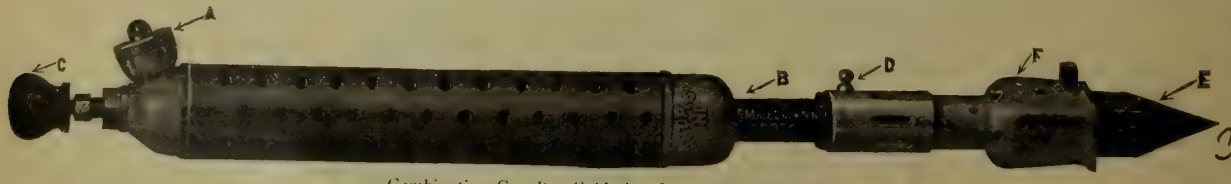


RETURNED
JUN 27 1905
To Montreal
Cat Book 37
Page 6

Bracket in Use.

COMBINATION GASOLINE SOLDERING IRON AND BLOW TORCH.

EMMELMANN BROS. MFG. CO., Indianapolis, Ind., are introducing the patent combination automatic soldering iron and blow torch illustrated herewith, which shows the device one-third size. In operation the cap at A is removed and the magazine is filled with gasoline within ½ inch of being full; then the cap is screwed on firmly. An alcohol lamp, which accompanies each tool, is lighted and the iron is heated at B for at least three minutes, keeping the valve C closed to generate a hot gas pressure. After heating the valve is gently opened, and the device is lighted by passing the tool over the flame at F. The tool should then be heated at B for three minutes longer. The operator can regulate the blast to suit the work to be done by means of valve C. The soldering copper is universal. Any shape copper point can be used. By removing the copper point shown at E the tool can be used as a blow torch. The company claims that the device requires no pump or platinum coils or other similar appliances; that it will last for an indefinite time if properly taken care of, and that it is well constructed, not complicated, and easily operated and kept clean. When properly started, it is explained, every particle of gasoline is consumed in a hot gas form without any danger of explosion, and the magazine can be refilled without generating. It is pointed out that the device is never too hot nor too cold, while the strongest wind will not blow it out. The cost to keep the tool in constant operation is said to be about 5c. a day. This tool is designed for use by electricians, linemen, tinners, plumbers and painters. The tool is furnished with two drop forge coppers—one for regular work and one for heavy work. The head is a high grade steel casting. The cylinder is made of No. 16 gauge drawn brass tubing threaded at both ends. The joints are tinned and sweated. The blunt brass valve stem is used, and the valve seat is made of the same material, to reduce grinding, binding and leakage to a minimum.



Combination Gasoline Soldering Iron and Blow Torch.

A SERVICEABLE BRACKET.

Lewis Bros. & Co., wholesale hardware merchants, of Montreal, have secured the agency for a new style of bracket manufactured by the Stanley Works, at New Britain, Conn. This

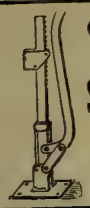
Bread mixers are growing in favor. They have met some opposition from the women that did not think they would do the business, but having been "shown" they are convinced and a rapidly-increasing sale is the result.

* * *

Although refrigerators take up a good deal of space in the store they are often not given the attention commensurate with their size or importance. The sale of one refrigerator brings in more than the sale of a lot of smaller articles. This line should be advertised and displayed very fully. In many families the cellar is used as the storage place for all perishable articles during the Summer months. The cellar is not bad—after you get there—but think of the many trips up and down the dark, steep stairs that would be saved if the housewife had a refrigerator and a chunk of ice in her kitchen. Bring this point out in the advertising.

RETURNED
JUN 27 1905
To Ottawa
Cat Book 37
Page 7

Persons addressing advertisers will kindly mention having seen their advertisement in Hardware and Metal.



COVERT MFG. CO.
Troy, N.Y.
Steel Carriage and Wagon Jacks
Harness Snaps, Chain, Rope and Web Goods, etc.
SOLD BY ALL LEADING JOBBERS.



The Sarnia Hub, Spoke and Bent Goods Mfg. Company.

Sarnia, Ont.

We are prepared to fill any orders for

Heavy Wagon, Sleigh, Buggy, and Cutter Stock.

We make a specialty of heavy stock and can fill orders promptly. Made from the best of oak and hickory as we carry a large stock of lumber and can make any sizes that may be required. We make it a point to fill orders promptly.

If you are in need of anything in our line we will be pleased to hear from you and we will give it our prompt attention.

J. S. LOUGHEAD & SON, Sarnia, Ont.

"The Best South Wales Produces"

IN STEEL COKE TINPLATES

"ELYN"
"LYDBROOK"
"ARTO"
"FRONTIER"

IN CHARCOAL TINPLATES

"CYMMER"
"ALLAWAYS"
"JUANA"
"SPARTAN"

FRANKLIN SAUNDERS & CO.
Limited
MONTREAL
Wholesale Trade Only Supplied

Globe Brand Files and Rasps

WARRANTED

Possess all the merits of the Best Hand-Cut Files. For sale by all prominent Hardware Dealers.



Thirty years' experience has taught us how to produce a Perfect File, consequently we are justified in giving our customers an absolute warranty with our product.

NICHOLSON FILE COMPANY

FACTORIES:
Providence, R.I., Paterson, N.J., Beaver Falls, Pa., Anderson, Ind., Port Hope, Canada.

A PERMANENT and Handsome Roof.



Arrow Brand Asphalt Ready Roofing

Will bring you profitable trade and satisfied customers. Comes in rolls ready to lay, all ready covered with gravel. Requires no experience to lay, and lasts for years without further attention.

A. C. JENKING & CO, Sole Agents,
Room 215 Coristine Building, - MONTREAL.
Sole agents being appointed in each district. Write to-day.

ASK YOUR JOBBER FOR

GILBERTSON'S

COMET

Brand Galvanized Sheets

are **NOT** a cheap grade, although the price is low. Every sheet guaranteed.

Makers: W. GILBERTSON & CO., Limited
Pontardawe, South Wales.

A Good Line

BEAVER POST-HOLE DIGGER

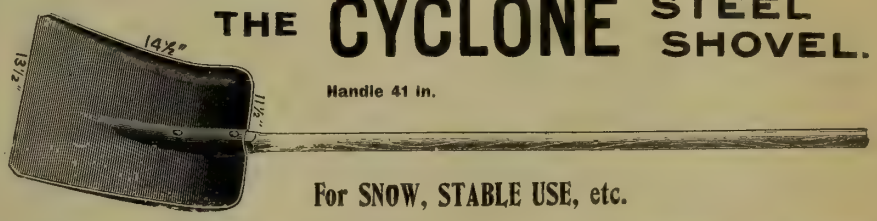
Will please your customer. A pleased customer is an asset to any business.

No wood to rot, check or break. Special discounts to the trade.

CANADA FOUNDRY COMPANY, LIMITED

HEAD OFFICE AND WORKS: TORONTO, ONT.
District Offices: Montreal, Halifax, Ottawa, Winnipeg, Calgary, Vancouver, Rossland

THE CYCLONE STEEL SHOVEL.



Handle 41 in.

For SNOW, STABLE USE, etc.

(Order by number.)		List	
No. 1341	Same as cut	$6.00 doz.	Liberal Discount to the Trade.
No. 1342	41-inch handle with No. 2 top	6.50 "	
No. 1343	41-inch handle with No. 3 top	7.50 "	
No. 1327	27-inch handle with No. 3 top	7.50 "	

Made from a sheet of 14 x 15 Steel, No. 16 gauge

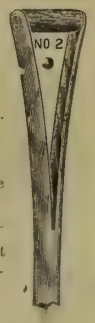
CARRIES EVERYTHING BEFORE IT.—Strong and light in weight. Shovel is fastened by two bolts and nuts, riveted. **SELLS AT SIGHT.**
It makes a splendid shovel for Street Cleaning.

Gentlemen:—Please ship at once two dozen of your Steel Snow Shovels same as we had a short time ago. These are the best shovels we have ever seen.

Yours truly, _____

Gentlemen: Shovels just received. Very satisfactory. Please send via first freight ten dozen of the same kind. Yours truly, _____

Write for our Circular of Shovels and Sidewalk Cleaners.





F. E. KOHLER & CO., Canton, Ohio., U.S.A.

SOL-A-RINE

The Great Polish

For all planished metals. Liquid Form. Screw Top Tins. No stock complete without it. What the trade say: "Sells better than any other."

Send for Circular

H. F. FALKINER,
60 George St., TORONTO



OAKEY'S The original and only Genuine Preparation for Cleaning Cutlery. 6d. and 1s. Canisters

'WELLINGTON' KNIFE POLISH

JOHN OAKEY & SONS, LIMITED

MANUFACTURERS OF

Emery, Black Lead, Emery, Glass and Flint Cloths and Papers, etc.

Wellington Mills, London, England

Agent:

JOHN FORMAN, 644 Craig Street
MONTREAL.

ORDER IT NOW.

A PERFECT POLISH

YORK

for metal surfaces of all descriptions.
Liquid or Paste, 10c. and upwards.

A sample sent to any dealer.

ANGLO-CANADIAN SUPPLY CO.
3 Wellington St. E., TORONTO



Cole's Spiral Tubular Radiator

Can be used on any stove

Best radiator at half the cost of inferior goods.

Only radiator made adapted for both hard or soft coal.

Size pipe collar 5, 6 and 7 inches.

These radiators give the best satisfaction, and have yet to receive a single complaint.

FOR SALE BY

E. T. Wright & Co., - Hamilton

STOVES AND TINWARE.

THE FURNACE TRADE.

IN the early days hot air furnaces were with rare exceptions made by stove manufacturers, and some of the leaders in this line are still large manufacturers of stoves. In recent years a number of concerns have come into existence devoted exclusively to the manufacture of hot air furnaces, while in some instances this line has developed in what were originally stove foundries until stoves no longer are a considerable factor in their business.

When the methods which prevail in the stove trade dominated the furnace trade, as they still do in some respects, the interests of both the stove and furnace manufacturers were the same, particularly in the method of marketing the output, the terms of sale and the observance of trade customs. In the last few years, however, some difference in experience has developed and at one time there was a discussion in our columns among furnace manufacturers as to the terms of sale and other trade details which were then receiving attention.

These questions never came up for consideration at any of the conventions of the stove manufacturers, possibly from the fact that they only interested one element in the membership, or possibly from the failure of furnace manufacturers to respond to the suggestion that a paper be prepared and brought to the attention of the secretary so that a place could be made in the programme to discuss its suggestions or recommendations.

In view of the large number of furnaces sold during the past two severe Winters, it is possible that furnace manufacturers have either been overwhelmed by the demand or have adjusted the various questions satisfactorily, and that there is no longer occasion for furnace manufacturers to look forward to any meeting or to a discussion of trade annoyances. There is evidence, however, that in some cases those identified with the installation of hot air furnaces need assistance in designing and installing their work, while in other instances men who are masters of all the details in determining what is necessary and providing for its proper placing in the building desire more information as to the dimensions of the apparatus which they install than has heretofore been furnished in catalogues or otherwise. There can be no doubt that the manufacturer will do well to give intelligent consideration to this demand from the leaders in this branch of the trade and provide in his printed matter the additional information sought.

The manufacturer who makes a varied line, running from the highest grade to those goods which are sought for their price alone, of necessity sells his goods to the competent and the incompetent alike, to those who need no assistance and to those who need it so badly that they do not know enough to ask for it. As a consequence many furnace heating systems are installed from which it is not surprising that many complaints are heard.

While furnace heating is the oldest method of heating from a central apparatus, success has attended the application of common sense to such an extent that even the beginner and those who lack many of the essential qualifications are not disposed to seek the advice of an experienced man, even though in many instances it would result profitably to the furnaceman and provide a far more satisfactory service to his customer. It is doubtful if a thorough discussion of these points at a national convention would effect an immediate remedy for some of the troubles now experienced, but it is more than probable that some attention could profitably be given to them.—Metal Worker.

GUELPH FOUNDRY CO. CONTINUE.

THE action of the Buck Stove Co. of Brantford against the Guelph Foundry Co. came before Judge Anglin a few days ago, and his lordship decided that alterations made in the stoves by the Guelph Co. were not sufficient to comply with the injunction which the courts granted some time ago. He said the Guelph Co. was still copying the Brantford Co.'s patterns, and this was both infringement of the patents and contempt of court.

Judge Anglin ordered the Guelph Foundry Co. to destroy all "Grand Idea" ranges in their possession or under their control, as well as all parts and patterns of them.

The Guelph Co. has consented to do this, and has issued a circular letter to all its patrons requesting a continuance of their trade, and promising that no dealer will suffer loss by holding their Fall orders for them. Manager Doherty and the company's superintendent intend visiting all the large stove centres on the continent, and promise to secure the most perfect and up-to-date range and to put it on the market within five or six weeks as their new "Grand Idea."

TIMELY HINTS.

If you have a stove with a new feature keep that point before the public hard. One thing persisted in will bring results where much general advertising will fail.

* * *

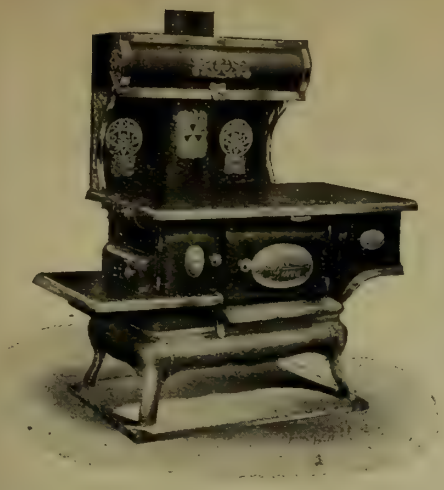
If business is dull get out some circulars and mail to the best trade. Describe your line of cooks, ranges and gasoline stoves and see if you don't scare up a few more sales.

* * *

Great care should be exercised in ordering repairs. All possible information about the stove for which the part is wanted should be given. Even then, if it is an old pattern there may be trouble in getting what is needed.

* * *

Too many stove catalogues and folders go into the waste basket without being examined. Are you guilty? There may be something that will be worth dollars to you in the next folder you receive.



WHAT WOULD YOU DO

if you were a cook

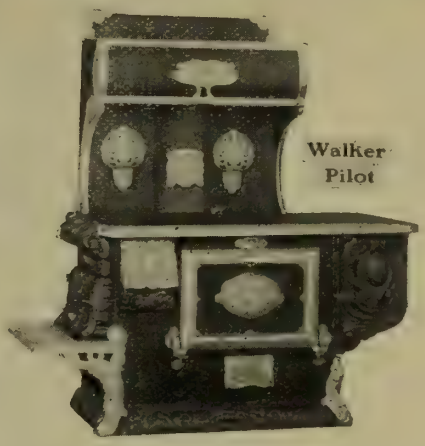
and there was no such stove as **The Empire Queen Range**? You would have to work harder and put up with less pleasant results than it is possible to get from using **The Empire Queen Range**, the stove that makes kitchen work a pastime, not a task.

WRITE FOR BOOKLET

The Canadian Heating & Ventilating Co.
OWEN SOUND, ONTARIO. Limited

THE

Walker Pilot Steel Range



Nearly every stove catalogue contains this assertion, "No range has what is called a draft, the chimney provides the draft." But when the range is hitched to the chimney, consider the importance of a wide, evenly distributed draft along the entire length of the grate, as embodied in the Walker "PILOT," and affording perfect, even combustion, and then look at the small retarded draft under the fire door at the end of the grate as seen in so many ranges. The difference is obvious—Economy, Perfect Regulation and Quick Results.

WRITE FOR PARTICULARS

THE WALKER STEEL RANGE CO., LIMITED
GRIMSBY, Ont.



The basis of all trade that lasts and creates other trade, is VALUE.

Range Buyers have never failed to get value in fullest measure in the

OXFORD CHANCELLOR RANGE

For years its performance has made good its promise, and satisfied housewives everywhere are constantly verifying its virtues by words of praise to many friends.

Wise dealers soon conclude that the reputation of Oxford Ranges, backed by the aggressiveness of Oxford advertising, make them a very good proposition to handle.

They make a very attractive store display, yield a good profit and assure satisfaction to all concerned.

WRITE FOR TRADE LISTS AND FULL PARTICULARS

THE GURNEY FOUNDRY CO., LIMITED

TORONTO——WINNIPEG——VANCOUVER

THE GURNEY-MASSEY CO., LIMITED, MONTREAL, QUE.
THE GURNEY STANDARD METAL CO., LIMITED, CALGARY, ALTA.

"DOMINION BRAND"
TARRED FELT
(THE OLD RELIABLE QUICK SELLER)

ROOFING PITCH
COAL - TAR

WHEN YOUR TRADE DEMANDS **THE BEST** ROOFING MATERIALS

CONSULT THE WELL-KNOWN MANUFACTURERS

LOCKERBY & McCOMB, 65 Shannon St., Montreal

ATKINS HIGH-GRADE, CROSS-CUT **SAWS** ARE SUPERIOR TO ALL OTHERS IN MATERIAL, TEMPER, WORKMANSHIP, FINISH AND CUTTING QUALITIES.

OUR VICTOR, TUTTLE TOOTH AND SEGMENT GROUND SAWS ARE THE FAVORITES IN THE CAMPS



E. C. ATKINS & CO., INCORPORATED

LEADING MANUFACTURERS OF HIGH-GRADE CROSS-CUT, HAND, BAND CIRCULAR, HACK, BUCK, WOOD AND SMALL SAWS OF ALL KINDS

Factories and Home Office: INDIANAPOLIS, IND., U.S.A.

Write for Catalogue and Prices.

CANADIAN BRANCH: 56 King St. E, Toronto, Canada.

Every Lock is Strictly Guaranteed.

Distinctions Many

Every Lock is Reliable, Salable.

No Resemblance Between

Gurney Cylinder Locks

and shoddy American Locks. **Gurney Locks** are high-class, fair-price locks, the pick of the market. They are sure and certain in every case. Guaranteed every time. You had better write for our Catalogue.

THE GURNEY, TILDEN CO., Limited
HAMILTON

BRANCHES:
Winnipeg—Tilden, Gurney & Co., Limited
Vancouver—The Gurney, Tilden Co., Limited

AGENCIES
Montreal—Nicoll & Barr, 85 St. Peter St.
St. John—Nicoll & Barr, 38 Dock St.

BUILDING AND CONSTRUCTION

A COMMON RESULT IN ESTIMATING.

BUILDING has become so highly developed and specialized that the cost of omitting work has become an important item in making estimates. Not long since a factory obtained a contract for furnishing the outer and inner wood finish of a chapel, says a writer in a recent issue of the Western Builder. Specifications for the outer work required that it be without "surfacing" or planing, as the saw left it. The office man who "billed" the work to the factory took pains to mark all over the lists and drawings that the stuff was to be planed on the back side only—this to bring it to a proper thickness—and that all exposed surfaces were to be left as sawn. In due time, chancing to be in the warehouse, he saw, stacked up ready for shipment, all this outer finish fully dressed and planed, and of course it all had to be thrown away. It is safe to say that the next time the managers of the factory estimate on work in which the surfacing is to be omitted they will add something to cover the chance of having to do the work over again.

NEW USES FOR CEMENT.

W. N. WIGHT, of Westwood, N.J., has made for use at his home a cement stove, cement ice-box, shelves and dog kennel. Mr. Wight says that any ingenious man can duplicate them with a little woven wire, a few boards and some cement and water.

The stove is one of the most novel of the product of Mr. Wight's genius. It is not exactly such a stove as one would put up in his parlor for use in heating it, but it serves its purpose well. It was built for heating purposes.

Mr. Wight says it radiates a mild and equable heat, such as it is not possible to secure from an iron stove. Stoves of this material are said to be especially serviceable for use in cellars, greenhouses and on farms for cooking feed. Mr. Wight's stove is cubical, with a hinged door in front.

A fruit cupboard is another of Mr. Wight's cement devices. While comparatively light in construction, its shelves will support a ton's weight. Against the side of the house outside the door is an ice-chest of the same material. The interior is provided with cement shelves, scarcely thicker than wooden shelves would be, but much stronger.

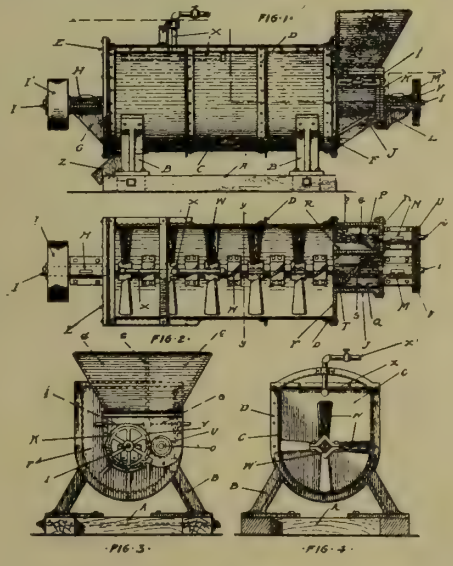
He has a kennel for his dog which is attractive in appearance, having the ordinary projecting eaves, door castings and other parts in imitation of the usual wood buildings. The walls of this house are two and a half inches thick, and possess great strength because of metal reinforcement.

Horse blocks, hitching posts, carriage-houses, stables and a mushroom cellar testify to Mr. Wight's fondness for cement, for of this material are they built. There are other articles which would be found useful to a man living in the country that could be made from cement. Drinking troughs, stationary washtubs, receptacles for retaining rain water and cooling tanks for milk might not be beyond the farmer's ingenuity to construct with his own hands.

Lightness and great strength are secured by the use of woven steel netting. This prevents the concrete from cracking and gives ten times the strength which would otherwise be obtained. In making these articles, which were all constructed of Portland cement, the cement was mixed with sand and cinders, in proportions of one, two and five parts. The only other ingredient in mixing the compound was water. Such structures will never need to be painted. They are quickly, smoothly and permanently finished by covering the surface as soon as the mold is removed with a coat of cement.

CEMENT MIXER.

Patent No. 787071, issued to Charles Brent, Rat Portage. This invention relates to a useful improvement in cement mixers, particularly in the construction,



arrangement and combination of parts. In the drawings, figure 1 is a side elevation of the improved mixer. Figure 2 is a horizontal section on line xx figure 1. Figure 3 is an end elevation looking from the right hand end of figure 1. Figure 4 is a vertical cross section upon line yy figure 2. What is claimed in this invention is the combination of a mixing chamber, the end plate F at one end, the sand chambers Q, the shaft I, extending centrally through the mixing chamber and centrally through the sand chamber, bearings at the end of said shaft, a bearing at the end of the cement chamber, shaft O in their bearing, the worm (b), the worm (T) of the main shaft, the beaters or blades W on the main shaft within the mixing chamber and the intermeshing gears on shafts I and O for the purpose described.

BUILDING NOTES.

James Houlden is to erect a $2,000 residence at Hamilton.

P. McCulloch will build two brick houses at Hamilton to cost $2,800.

Mrs. M. Bell, Hamilton, will build four frame houses on Gibson avenue at a cost of $4,000.

The Winnipeg Electric Railway Co. is building a power house 70x180 feet and two storeys high.

Thos. Lovejoy, Hamilton, has been granted a permit to erect three brick houses to cost $5,000.

Barnett & McQueen have been awarded the contract for the erection of the new Ogilvie flour mill at Fort William.

The Chatham Fanning Mill Co. will erect a solid stone and brick block at Brandon for office and warehouse purposes.

Building permits in Toronto from June 12 to 17 were for 92 dwellings and other buildings to cost over a quarter of a million dollars.

T. J. Fair & Co., Brantford, have taken out a building permit for their factory extension. The value of the extension is estimated at $2,800.

J. H. Agnew is to erect a $3,000 residence at Toronto Junction, while W. H. Padden and W. J. Adair are to build houses costing $1,600 and $1,500, respectively.

The congregation of the Montreal Annex Presbyterian Church are making preparations for the erection of a new church which will cost, with the land, in the neighborhood of $17,000.

A three or four-storey building will soon be erected by the Dominion Guarantee Co. in Montreal. The situation of the new building will be on their new property at the corner of St. James street and St. Michaels lane. The lot measures forty feet on St. James street, and has an area of 3,000 square feet.

A permit has been issued for the erection of a $122,000 apartment house at 355 Mountain street, Montreal. The building will be four storeys high, constructed of stone and brick, and will accommodate thirty-two families. It will have fireproof walls, elevators and a cold storage equipment, and three water mains, each of four inches' diameter, will supply it with fire protection. The building will be 147x179 feet, and will stand fourteen feet back from the street.

MONTREAL BUILDING PERMITS.

A. Martin, dwellings, 57 McGill College avenue, $12,000.

A. Gagnon, dwellings, Gauthier street, Papineau ward, $2,900.

A. Royer, dwellings, De Levis street, Hochelaga ward, $2,000.

T. Daze, dwellings, St. Hubert street, St. Denis ward, $2,300.

Houlze and Jules, dwellings, 384 Frontenac street, $2,800.

Mde. M. A. Weir, dwelling, 1,098 Sherbrooke street, $10,000.

W. Lachapelle, dwellings, Labelle street, St. Denis ward, $1,500.

C. C. Hardie, dwellings, St. Hubert street, St. Denis ward, $3,000.
H. Galibert, factory, corner of Amity and Parthenais streets, $8,000.
Joseph Riendeau, dwellings, Notre Dame street, Hochelaga ward, $3,000.

TORONTO BUILDING PERMITS.

J. Bishop, dwelling, Markham street, $3,500.
W. H. Kelly, dwelling, Dagmar avenue, $1,200.
Geo. A. Patterson, dwelling, Arthur street, $2,400.
Wm. Dilworth, dwelling, Florence street, $1,500.
Robert Watt, dwelling, Hampton avenue, $1,600.
J. C. Foy, dwelling, 24 Chestnut Park road, $10,000.
H. S. Mara, one pair dwellings, Grace street, $4,600.
James R. Mills, dwelling, De Grassi street, $1,400.
Chas. Joliffe, brick dwelling, Howland avenue, $2,000.
Pettit & Pettit, two dwellings, Birtle avenue, $1,600.
William Brad, brick dwelling, Davenport road, $2,000.
Walter Rushbrook, dwelling, Symington avenue, $1,850.
W. B. Charlton, one pair dwellings, Fuller street, $3,000.
C. W. Chadwick, two dwellings, Dovercourt road, $6,400.
Christian Workers' Church, 274 Bathurst street, $5,000.
Chas. B. Horswell, dwelling, McPherson avenue, $2,600.
Mrs. Elizabeth Pinel, dwelling, Gore Vale avenue, $2,600.
John Wickett, one pair dwellings, Sumach street, $4,500.
William H. Hodgens, dwelling, Farnham avenue, $4,600.
J. K. Pickett, brick dwelling, Farnham avenue, $4,000.
A. Batho, one pair dwellings, Hamburg avenue, $2,600.
James Wood, brick dwelling, Sherbourne street, $8,000.
William H. Stone, two pair dwellings, Pape avenue, $4,000.
J. R. A. Wallace, one pair dwellings, Perth avenue, $2,700.
Geo. Davis, stone and brick dwelling, Pears avenue, $1,500.
John Berrie, roughcast dwelling, Dovercourt road, $1,000.
John Kee, brick and stone dwelling, Birtle avenue, $2,200.
C. Coulter, one pair dwellings, Bellwoods avenue, $4,000.
City Storage Co., storage warehouse, College street, $8,000.
Robert Watt, stone and brick dwelling, Rusholme road, $5,500.
W. P. Dandy, one pair brick dwellings, Bernard avenue, $5,500.
John Westover, roughcast dwelling, Montrose avenue, $1,500.
J. H. Aberdeen, two pair dwellings, Gladstone avenue, $8,000.
James Hogg, addition to dwelling, 3 Montrose avenue, $1,500.
R. C. Vaughan, four pair dwellings, Bathurst street, $17,000.
Prof. J. D. Robertson, brick residence, St. George street, $8,000.
Joseph Swain, stone and brick dwelling, Birtle avenue, $2,200.
McCaulay and Bishop, one pair dwellings, Albany avenue, $4,500.
W. J. Hutchens, roughcast dwelling, 566 Preston avenue, $1,000.
W. and F. Walker, one pair brick dwellings, Bain avenue, $4,600.
W. R. Frith, one pair dwellings, 160 and 162 Spruce street, $4,000.
J. T. V. May, stone and brick dwelling, Palmerston avenue, $4,000.
John Drummer, pair stone and brick dwellings, Dupont street, $8,000.
Toronto Furnace & Crematory Co., foundry, Golden avenue, $10,000.
Mrs. John Bain, stone and brick dwelling, Cluney avenue, $7,500.
J. Huntstanford (in trust), one pair dwellings, Delaware avenue, $4,600.
Harry J. Fairhead, stone and brick dwelling, 80 Yorkville avenue, $3,500.
Lieut.-Col. Davidson, addition to residence, 156 St. George street, $1,500.
C. W. Chadwick, one pair dwellings, 909 and 911 Dovercourt road, $4,000.
T. S. Montgomery, one pair dwellings, 225 and 227 Brunswick avenue, $4,000.
A. H. Start and A. I. Harrison, one pair dwellings, Melville avenue, $1,400.
James J. Walsh, one pair stone and brick dwellings, Havelock street, $5,000.
W. W. Hiltz, one pair brick dwellings, 567 and 569 Broadview avenue, $5,000.
Victoria Young, two pair stone and brick dwellings, Gore Vale avenue, $8,000.
David Landsberg, two brick stores and dwellings, 80 and 82 Elizabeth street, $3,800.
Geo. B. Meadows, factory, corner Wellington place and Draper street, $1,900.
Clement Sullivan, store and dwelling, corner Shaw street and Melville avenue, $1,000.
T. McNea, store and dwelling, corner Clinton street and Henderson avenue, $2,000.
Otto Higel Co., Limited, chimney, 118 feet high, corner King and Bathurst streets, $3,000.

METAL WINDOW SCREENS.

WATSON MANUFACTURING CO., Jamestown. N.Y., have recently been allowed a patent on the all-metal window screen, composed entirely of nonrustable material, shown in the accompanying cut. The screen works on the same principle as the wooden frame screen, which the firm has been manufacturing, and will continue to manufacture. The advantageous features of the screen are referred to as follows: It is comparatively light in weight; the wire cloth is very smoothly and tightly stretched; the lifts are convenient and inconspicuous; in case of breakage of a spring it can be removed and replaced without the use of tools; and strength and durability.



Metal Window Screen.

RETURNED
JUN 26 1905
To Owner.
Cut Book 37.
Page 1
acsv.

HARDWARE TRADE PARAGRAPHS.

How much better a hardware store looks when there is an abundance of up-to-date shelving and fixtures and everything is neat and trim. Contrast this with an old-style place where everything is scattered promiscuously on the shelves, on the counters and on the floor. Wouldn't you rather patronize the first-named store yourself?

* * *

Paint is selling rapidly. The weather thus far has been excellent for this work, and the amount of repainting of old buildings and refinishing generally has been immense in the northwest. And the season is just opening.

* * *

It is said that the demand for carpet sweepers has been slowly increasing for the past ten years. The manufacturers are able to meet all demands so far, and will probably have enough stock made up to carry the trade through the Summer season. Prices are declared to be low, considering the advanced cost of iron and wood.

* * *

Judging from the magazine advertisements and the many displays, safety razors are selling everywhere. There is no doubt that they are preferred by many men, but at the same time there is a steady demand for the old timers that are just as "safe" in the hands of a man who is accustomed to them, and which do not require any special apparatus for stropping.

* * *

Food choppers are always in demand. Nowadays the housewife runs the remnants of the roast through the chopper and makes hash or "veal loaf" or something just as good, where formerly is was laboriously chopped up by hand. They are not an expensive utensil and should be in every kitchen.

"THE EMLYN" SAW BENCH

Made in 6 sizes. Best value obtainable. Specially designed for export With or without "Emlyn" Patent Guard. Sole maker—

CHARLES D. PHILLIPS,

Cables— "Machinery," Newport.
Emlyn Engineering Works NEWPORT, MON., ENGLAND

The Hanover Portland Cement Co., Limited

HANOVER, ONTARIO

Manufacturers of the celebrated **"Saugeen Brand"** OF PORTLAND CEMENT.

Prices on application.

USE
"HERCULES" BRAND
PORTLAND CEMENT
Manufactured by
THE GREY & BRUCE PORTLAND CEMENT CO.
OWEN SOUND
J. McLAUCHLAN, President.

NEWMAN'S PATENT INVINCIBLE FLOOR SPRINGS

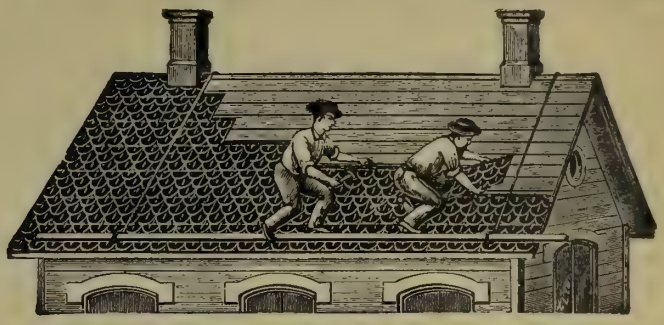
Combine all the qualities desirable in a Door Closer. They work silently and effectually, and never get out of order. In use in many of the public buildings throughout Great Britain and the Colonies.

MADE SOLELY BY
W. NEWMAN & SONS, Birmingham.

WORK AND PRICES RIGHT
GALVANIZING
ONT. WIND ENGINE & PUMP CO.
TORONTO, ONT. LIMITED.

PEDLAR'S STEEL SIDING AND SHINGLES

At $2.00 and $2.55 per 100 Square Feet.



Painted red on both sides. Most durable and economical covering for ***Roofing or Siding for Residences, Houses, Barns, Elevators, Stores, Churches, Poultry Houses, Cribs, etc.*** Easier to lay and will last longer than any other covering. Cheaper than wood shingles or slate. No experience necessary. A hammer and snips are the only tools required. It is semi-hardened, high grade steel. ***Brick or Stone Siding at $2.00 per 100 Square Feet. Pedlar's Patent Steel Shingles at $2.55 per 100 Square Feet.*** Also ***Corrugated Iron, Painted or Galvanized,*** in sheets 96 inches long. ***Beaded and Embossed Ceilings. V Crimped Roofing.*** 2,000 designs of Roofing, Siding and Ceilings in all grades. Thousands of buildings throughout the Dominion covered with our Sheet Metal Goods, making them

Fire, Water and Lightning Proof.

Send in your order for as many squares (10 x 10 feet) as you require to cover your new or old building The very best roofing for this climate. We can supply ***Eave Trough, all sizes, Corrugated or Plain Round, Conductor Pipes, Shoes, Elbows, Spikes, Tubes.***

All goods shipped day after order is received. We are the largest concern of the kind under the British flag. Established 1861. Capital invested $150,000.00.

THE PEDLAR PEOPLE, OSHAWA, ONTARIO, CANADA.

MONTREAL, QUE.	OTTAWA	TORONTO	CALGARY, ALTA.	VANCOUVER, B.C.
767 Craig St.	423 Sussex St.	50 Yonge St.	201 7th Ave. E.	615 Pender St.

WRITE YOUR NEAREST OFFICE.

Awarded the Medal

FOR BEING THE MOST EFFECTIVE DAYLIGHT INCREASING GLASS (OVER HOSTS OF OTHERS.)

MAXIMUM LIGHT GLASS

was awarded the **John Scott Legacy Medal of Edinburgh.** **Maximum Light Glass** has been endorsed throughout the Empire and builders have pronounced it **ideal.** With **you** and these **builders** there should be an acquaintanceship. We will send you samples of **Maximum Light Glass** on receipt of a post card. **Send one.**

Sole Canadian Agents:

THE HOBBS MANUFACTURING CO., Limited, LONDON, ONT.

Glass Importers and Manufacturers.

STREET PAVING and SIDEWALKS a SPECIALTY

SILICA BARYTIC STONE CO.

OF ONTARIO Limited

Head Office:

Ingersoll, Ontario.

Walter Mills, General Manage

Water Proof Floors for Malt Houses, Brewer ies, Slaughter Houses Cheese Factories, Cel lar, Stable Floors, etc

Ask for quotations for Septic Tanks.

Will Hold Up a Shelf!

That's what a shelf bracket is for.

For this purpose there can be NOTHING BETTER, NOTHING CHEAPER than the BRADLEY STEEL BRACKET. It is well Japanned, Strong and Light. The saving in freight is a good profit, aside from the lower price at which the goods are sold. Order direct or through your jobber.

ATLAS MFG. CO.,

New Haven, Conn., U. S. A

CONNOR'S O. K. ROTARY WASHER.



No experiment, but a trade winner. Dealers who handle this washer say they sell easier than any other. Write for our catalogue and price list.

J. H. CONNOR & SON, LTD., Manufacturers OTTAWA

...FULL STOCK...

Salt Glazed Vitrified

SEWER PIPE

Double Strength Culvert Pipe a Specialty.

THE CANADIAN SEWER PIPE CO.

HAMILTON, ONT. TORONTO, ONT.

ST. JOHNS, QUE.

CONCRETE VENEER

Absolutely Fireproof

Frost Proof

Anchored direct to the Sheeting

1 inch in thickness

Cheap as Roughcast

Mould and Territory For Sale

CONCRETE BLOCK MACHINE CO.

32 Church St., - Toronto.

INDUSTRIAL GOSSIP

HARDWARE AND METAL would be pleased to receive from any authoritative source industrial news of any sort, the formation or incorporation of companies, establishment or enlargement of mills, factories, foundries or other works, railway or mining news. All correspondence will be treated as confidential when desired.

AN executive officer states that the first annual statement of the Lake Superior Corporation, now being prepared by the executive committee, will contain the statement of each plant that has been in operation, and that with the exception of the sulphite mill and nickel converter all have been running full capacity for same time. And mainly because all the most important plants have been well filled up with orders. the smaller plants have been able to make a good showing. For instance, the steel rail mill has had enough orders on hand to keep it running full capacity of about 50 tons a day, and this has meant that the blast furnaces and charcoal plants have had all the business they could handle. Then again the pulp mill, the saw mill, the veneer mill, from the beginning of the year have had enough orders to keep them running full throughout the twelve months, and the delivering of their output as well as that of the steel rail mill at different points has meant that even the large fleet controlled by the corporation has not been sufficient to handle the business that has been offering since the opening of the season of navigation. It has, therefore, been found necessary to charter several other steamers. To keep all these plants running and to operate the street car systems in the two Soos has meant that the power department has had contracts for the entire amount of power. The exact figures to be shown in the statement will show that these statements are confined to facts.

Mason's mills, burned down at Ottawa recently. will be rebuilt and enlarged.

The London Machine Tool Co., employing 80 hands, will remove to some other place.

Messrs. T. E. Babbitt & Sons will erect a large and modern saw mill at St. Marys. near Fredericton, N.B.

The York-Sunbury Milling Co., with saw mills at Gibson, N.B., will add a sash and door factory to their plant.

The Belleville Portland Cement concern is now running in full blast, and already a large number of good orders have been received.

The Royal Canadian Flour Mills Co. will erect a million bushel elevator at St. Boniface, Man., and a mill with a capacity of 4,000 barrels daily.

Fire did $200,000 damage to buildings at Fort Frances last week. Amongst the stores destroyed were the fine buildings of the Wells Hardware Co.

McKenzie & Mann are understood to be behind the new Canadian Northern Prairie Lands Co., which has been organized at Toronto, with a capital of $5,000,000.

The Dennis Wire & Iron Co. have decided to remain in London and erect a larger factory, 72 x 160 feet, and two storeys high. Contracts for the new building have been let.

The Jenckes Machine Co., Sherbrooke, Que., have practically completed arrangements for the erection of branch factory buildings at St. Catharines, where 400 to 500 men will be employed.

A company has been organized at Edmonton, N.W.T., with a capital of $100,000, to erect a flour mill with a capacity of 250 barrels daily. They are asking the town lor a bonus and exemption from taxation for ten years.

The Fraser River Saw Mills Co. expect to have their large saw mills at New Westminster in operation shortly. A planing mill will be added to the Ross-McLaren property and the plant will be made thoroughly up-to-date.

The Western Canada Flour Mills Co. will erect a mammoth flour mill and elevator at Winnipeg or St. Boniface shortly. The company has purchased five elevators at Chater, Pendennis, Yorkton, Indian Head, and Crandall.

The Truro Knitting Mills Co., Limited, are busy putting in new machinery. This week a large 80 horse-power boiler is being added to the power house and the company expect in the near future to increase the production 20 per cent.

A new industry has been established in Belleville, namely, the Dominion Bedding Co., which manufacture highest grades of bed springs and mattresses. Although but recently established, the firm is doing well, and employing a number of hands.

The Geo. B. Meadows, Wire, Iron & Brass Works Co., Toronto, have purchased a site 140 x 90 feet on Wellington Place, corner of Draper street, on which they are erecting a new factory designed especially for their line of work. The factory will be 120 x 40 feet, four storeys high. This move has been made necessary by the expansion of the business.

The Crossen Car Mfg. Co., Cobourg, Ont., have orders on hand for 16 passenger cars of different descriptions for the Intercolonial Railway, one baggage and mail car and 200 box cars for the Temiskaming & Northern Ontario Railway; 10 passenger coaches, five baggage cars and 200 box cars for the Canadian Northern Railway; and 100 flat cars for the James Bay Railway.

Captain J. A. Farquhar has proposed to the North Sydney, N.S., city council to build a railway dry dock, at that place, at a cost of $250,000, if a bonus of $2,500 a year for 20 years with free water and exemption from taxes are granted him. He is also interesting the Government with a view to obtaining a subsidy for a complete modern wrecking plant, to be established at North Sydney. This would cost about $140,000 additional.

The Eckardt Casket Co. and Eckardt Silver Plate Co. have secured factory buildings at Niagara and Tecumseth streets, Toronto, their purchase of the site forcing eleven other firms to move. These are: The Palmer Piano Co., Mason & Risch Piano Co., United Elec-

tric Co., Barthelmes Piano Action Co., W. Bohn & Co., piano key manufacturers; Spence & Co., Gilchrist & Co., contractors; Colleran Mattress Co., Toronto Woodmaking Co., Carlyle Mfg. Co., and American Autoharp Co. There is 400 horse-power capacity twin engine, 800 lb. boiler capacity, and 125,000 feet capacity for dry kiln. There are five railway switches on the premises, one runs into the main building direct over to the planing mill and dry kiln, two in the yards to pile lumber on both sides, and one into the coal bin.

Since the beginning of the year the Helen mine has steadily increased its output till its average output is now 5,000 tons a day. and the activity at this mine and others in the Michipicoten district has supplied quite a large amount of traffic for the Algoma Central Railway. With so much business offering the staffs at the different plants have been largely increased, and the increased population in the two towns has meant abundant traffic for the car systems in the two towns as well as for the ferry service between the towns. Then the figures will show that the Lake Superior Corporation is now without any outstanding indebtedness and is regularly paying the interest on all its bonds. At the close of the first regular fiscal year the different subsidiary companies will certainly be in a much better position than the most sanguine directors had hoped for. Without the $2,000,000 loan made by the late Ontario Government it is doubtful whether the works would be running at all.

Companies Incorporated.

The Automatic Train Stopping Co., Limited, Toronto, share capital $250,000; purpose, to manufacture and deal in air compressors, electrical machines, etc. The directors are: W. R. P. Parker, G. M. Clark and J. A. McEvoy, all of Toronto.

Canadian Seamless Wire Co., Limited, Toronto, share capital $50,000; purpose, to manufacture and deal in wire, etc. The directors are: W. B. Gladding and E. H. Fairbrother, of Providence, R.I., and H. E. Smith and H. P. Smith, of Cranston, R.I.

Seibert Curtain Pole Co., Limited, Toronto, share capital $20,000; purpose, to manufacture articles out of iron, metal, wood, fibre, etc. The directors are: T. C. Seibert, E. J. Butler, E. Williams, J. Williams, and E. Lewis, all of West Washington, Pa.

The Ottawa Cement Block Co., Limited, Ottawa, share capital $10,000; purpose to carry on the business of manufacturing and dealing in cement blocks, etc. The directors are L. S. Macoun, F. D. S. LeMoine, G. S. May, R. Wright and C. A. Irvine, all of Ottawa.

The Rideout Gilbert Co., Limited, of the Province of Manitoba, have been granted the right to manufacture and sell tableware, hardware, etc., and to do business in Ontario to the extent of $40,000. Harding Rideout, Rat Portage, has been appointed to be its attorney.

Kakebeka Power Co., Limited, Fort William, Ont., share capital $2,000,000; purpose, to carry on the business of power and electric heating and lighting company. The directors are: H. S. Holt, C. R. Hosmer, F. W. Thompson, H. W. Norton, all of Montreal, Que., and F. H. Phippen, Winnipeg.

Pedlar Talks

"KEEPING EVERLASTINGLY AT IT BRINGS SUCCESS."

No. 10. OSHAWA, ONT. JUNE 24, 1905

CHEAP

You do not have to be a mathematician to figure out that **Perfect Metal Lath** is cheap. Consider that it means fewer chances of fire, no more cracking of plaster, no sap-stained walls, no ill-health due to decayed wood—consider these virtues of **Perfect Metal Lath,** and besides that it can be applied more quickly than wooden lath, with half the mortar, half the energy and vastly better results, and we think you will agree with us and the contractors who use it, that **Perfect Metal Lath** is **cheap** at 10c. per square yard.

VERY CHEAP

Perfect Metal Lath is cheap compared with wooden lath. **Perfect Metal Lath** is **very cheap** compared with other metal lath. **Perfect Metal Lath** sells at 10c. per square yard, other metal lath sells at 20c. per square yard, and thereabouts. A difference indeed! You must know contractors working in your vicinity to whom you can make this difference known. By talking up **Perfect Metal Lath** you can secure the discount on the sale. We will equip you with literature. You need not carry in stock a square yard of the lath, or risk one cent, but simply negotiate as our agent, and the deal goes through in your name. Of course, if you carry a stock you are better situated to act quickly, and at the same time get the same profit. Will you talk up **Perfect Metal Lath?** Think over it **now.**

The Pedlar People

of OSHAWA, ONT.

MONTREAL—767 Craig St. OTTAWA—423 Sussex St. TORONTO—50 Yonge St.
VANCOUVER, B.C.—615 Pender St. SYDNEY, AUSTRALIA—189 Clarence St.
CAPE TOWN, S.A.—141 Longmarket St.

WRITE YOUR NEAREST OFFICE.

THE STAR SHINES BRIGHTLY

Every merchant who sells building papers should study the message given by the star.

NOW is the time to boom your sales of building paper.
HANDLE a line that will boom itself.
SATISFACTION, once expressed, is ne'er forgotten.

WRITE FOR BOOKLET WHICH GIVES FULL INFORMATION

ALEX. McARTHUR & CO., Limited, MONTREAL

CURRENT MARKET QUOTATIONS.

June 23, 1905.

These prices are for such qualities and quantities as are usually ordered by retail dealers on the usual terms of credit, the lowest figures being for larger quantities and prompt pay. Large cash buyers can frequently make purchases at better prices. The Editor is anxious to be informed at once of any apparent errors in this list, as the desire is to make it perfectly accurate.

METALS.

TIN.

Lamb and Flag and Straits—	
56 and 28-lb. ingots, 100 lb.	$32 00 $33 00

TINPLATES.

Charcoal Plates—Bright.

	Per box.
M.L.S., equal to Bradley—	
I C, usual sizes	$6 50
I X "	8 00
I X X "	9 50
Famous, equal to Bradley—	
I C	6 50
I X	8 00
I X X	9 50
Raven and Vulture Grades—	
I C, usual sizes	4 25
I X "	5 00
I X X "	5 75
I X X X "	6 50

"Dominion Crown Best"—Double Coated, Tissued.

	Per box.
I C	5 50
I X	6 50
I X X	7 50
I Allaway's Best"—Standard Quality.	
I C	4 50
I X	5 50
X	6 50

X Coke Plates—Bright.

Bessemer Steel—	
I.C., usual size, 14x20	3 50
I.C., special sizes, base	3 75
20x28	7 50

Charcoal Plates—Terne

Dean or J. G. Grade—	
I.C., 20x28, 112 sheets	7 50
IX., Terne Tin	10 50

Charcoal Tin Boiler Plates.

Cookley Grade—	
X X, 14x56, 50 sheet bxs. / 14x60, " / 14x65, "	7 00

Tinned Sheets.

72x30 up to 24 gauge	7 25	7 50
" " 26 "	7 75	8 00

IRON AND STEEL.

	Montreal.	Toronto.
Common bar, per 100 lb.	1 80	1 80
Forged iron "	2 05	2 05
Refined "	2 20	2 05
Horseshoe iron "	2 02½	....
Hoop steel, 1½ to 3 in. base	....	....
Sleigh shoe steel "	1 97½	....
Tire steel	2 07½	....
T. Firth & Sons, tool steel—		
Speedicut	....	0 60
Annealed speedicut	....	0 65
Self-hardening	....	0 36
Best tool steel	....	0 12
Warranted	....	0 09
Best sheet steel	....	0 12
B. K. Morton & Co.—		
"Alpha" high speed	....	0 65
" annealed	....	0 70
"M." Self-hardening	....	0 50
"J " quality	....	0 18
"I" "	....	0 14
"BC" "	....	0 09
Jonas & Colver's tool steel	0 10	0 20
" "Novo"	....	0 65
" " annealed	....	0 70
Chas. Leonard	0 08	0 09
Crucible Steel Co.—		
" Rex high speed steel	0 65	0 75
" Self-hardening	0 45	0 50
Crucible Special	....	0 17
" Silver steel	....	0 13
" Black Diamond	0 10	011
Sanderson's Crucible steel	0 08	0 09
" Superior "	0 12	0 13

BABBIT METAL.

Syracuse Smelting Works:

Aluminum, genuine	0 45
Government, "	0 44
Tough, "	0 40
Hard, "	0 40
Dynamo	0 30
Special	0 25
Maganese	0 18
Car Box	0 17
Extra	0 13
No. 1	0 10
No. 2	0 07
No. 3	0 05½

Large orders subject to discounts.

The Canada Metal Co.:

Imperial, genuine,	0 40
Metallic	0 30
Hercules	0 20
Star	0 15
No. 1	0 12
No. 2	0 10
No. 3	0 06
No. 4	0 05

BLACK SHEETS.

	Montreal.	Toronto
10 gauge	2 30	2 30
12 and 14 gauge	2 25	2 35
17 "	2 20	2 40
22 to 24 gauge	2 05	2 50
26 "	2 10	2 65
28 "	2 15	2 70

COPPER WIRE.

Discount, 50 per cent.

CANADA PLATES.

Ordinary	2 50
All bright	3 75
Galvanized Canada Plates—	
J. C. M. 3 Crowns	
16 x 21 x 60	3 33
18 x 24 x 52	3 33
18 x 24 x 60	3 56

	Ordinary.	Dom. Crown.
18x24x52	4 25	4 35
" 60	4 50	4 60
20x28x80	8 50	8 70
" 94	9 00	9 20

GALVANIZED SHEETS.

	Fleur-de-Lis.	Gordon Crown.
16 to 20 gauge	3 40	....
22 to 24 gauge	3 50	3 50
26 "	3 75	3 75
28 "	4 00	4 15

	Comet Bell.	Queen's Head
16 to 20 gauge	3 40	....
22 to 24 gauge	3 45	3 65
26 "	3 70	3 90
28 "	3 95	4 15

American brands, $3.90 for 10¾ oz.
Less than case lots 10 to 15c. extra.

CHAIN.

Proof coil, 3-16 in., per 100 lb.		7 00	10 00
" ¼ "	"	....	5 60
" 5-16	"	....	4 45
" ⅜	"	....	3 85
" 7-16	"	....	3 70
" ½	"	....	3 55
" 9-16	"	....	3 45
" ⅝	"	....	3 35
" ¾	"	....	3 25

Halter, kennel and post chains, 40 to 40 and 5 per cent.

Cow ties	40 p.c.
Tie out chains	65 p.c.
Stall fixtures	35 p.c.
Trace chain	45 p.c.

Jack chain, iron, single and double, discount 35 p.c. [count 40 p.c.

Jack chain, brass, single and double, dis-

COPPER.

	Ingot.	Per 100 lb.
Casting, car lots	16 25	16 50

Bars.

Cut lengths, round, ½ to ⅞ in.	21 00	23 00
" round and square,		
Cut 1 to 2 inches	21 00	23 00

Sheet.

Plain, 16 oz., 14x48 and 14x60	21 00
Plain, 14 oz.	22 00
inned copper sheet	24 00
lanished	32 00

Braziers' (in sheets).

4x6 ft., 25 to 30 lb. each, per lb.	0 22
" 35 to 45 " "	0 21
" 50-lb. and above "	0 20

BOILER AND T.K. PITTS.

Plain tinned / Spun } 41½ per cent. off list.

BRASS.

Rod and Sheet, 14 to 30 gauge, 10 per cent.	
Sheets, hard-rolled, 2x4	0 23
Tubing, base, per lb.	0 23½

ZINC SPELTER.

Foreign, per 100 lb	7 00	....
Domestic " "	6 75	7 00

ZINC SHEET.

5-cwt. casks	....	7 00
Part casks	....	7 25

LEAD.

Imported Pig, per 100 lb.	3 50	3 75
Bar, " "	....	4 80
Sheets, 2½ lb. sq. ft., by roll	....	0 06½
Sheets, 3 to 6 lb. "	....	0 06

NOTE.—Cut sheets ½c. per lb., extra. Pipe, by the roll, usual weights per yard, lists at 7c. per lb. and 35 p.c dis. f.o.b. Toronto.

NOTE.—Cut lengths, net price, waste pipe 8-ft lengths, lists at 8c.

ANTIMONY.

Cookson's per lb.	0 09½

SHOT.

Common, $6.50 per 100 lb.; chilled, $7.00 per 100 lb.; buck, seal and ball, $7.50. Discount, 15 p.c. Prices are f.o.b. Toronto, Hamilton, Montreal, St. John and Halifax. Terms, 2 p.c. for cash in thirty days.

PLUMBING GOODS.

BATH TUBS.

Zinc	6 00
Copper, discount 20 per cent. off revised list.	

BATHS.

Standard Ideal Enameled.

Plate E I, Fittings extra		1st quality	Special
4 and 4½ ft.	13 in. rolled rim	$18 00	16 00
5 feet	"	19 00	17 00
5½ "	"	20 50	18 50
6 "	"	23 25	21 25
Plate E II			
4½ feet	2½ in. "	16 75	14 75
5 "	2½ "	17 50	15 50
5½ "	2½ "	19 00	17 00

Plate 123 E, lavatories		1st quality	8 90
" 123 E, "	2nd "	....	7 50
" 127 E, "	1st "	....	5 70
" 127 E, "	2nd "	....	4 80
" 128 E, "	1st "	....	5 60
" 128 E, "	2nd "	....	4 70
" 129 E, "	1st "	....	5 40
" 129 E, "	2nd "	....	4 50
Sinks 18 x 30 in flat rim, A quality			2 45
" " " " "	B "		00

IRON PIPE.

Black pipe—	Per 100 feet.
⅛ inch	2 75
¼ "	2 04
⅜ "	2 06
½ "	2 30
¾ "	2 88
1 "	4 12
1¼ "	5 62
1½ "	6 75
2 "	9 00

Galvanized pipe—	
⅛ inch	2 86
¼ "	2 89
⅜ "	3 14
½ "	4 02
1 "	5 77
1¼ "	7 88
1½ "	9 45
2 "	12 60

Malleable Fittings—Canadian discount 35 per cent. American discount 20 to 25 per cent.

Cast Iron Fittings—Standard bushings 50 and 10 and 10 per cent.; headers, 60; flanged unions and lipped, 60 and 5; malleable bushings, 65; nipples, up to 6 in., 75.

PLUMBERS' BRASS GOODS.

Standard Compression work, dis. 60 p.c.
Cushion work, discount 50 per cent.
Fuller work, discount 65 per cent.
6 dozen lots and over of the above, extra discount 10 per cent.
Lever handle Stops and Waste, discount 55 per cent. With in lots of 2 dozen and over, an extra discount of 10 per cent.
J.M.T. Globe, Angle and Check Valves, discount 55 per cent.
Standard Globe, Angle and Check Valves, discount 65 per cent.
Kerr's special standard globes and angles, discount 55 per cent.
Kerr's Jenkin disc, copper-alloy disc and heavy standard valves, discount 55 percent.
Kerr's standard brass checks, discount 55 p.c.
Kerr's standard brass disc steam radiator valves, discount 65 per cent.
Kerr's Jenkin disc, copper-alloy disc radiator valves, discount 65 per cent.
Kerr's quick-opening hot-water radiator valves, discount 65 per cent.
Weber's (Kerr) patent straightway gate valves, brass, discount 50 per cent.
Weber's (Kerr) patent straightway gate valves, I. B. B. M., discount 60 and 10 per cent.
J. M. T. Radiator Valves discount 55 per cent.
Standard Radiator Valves, discount 65 per cent.
Patent Quick-Opening Valves, discount 7 and 10 per cent.

No. 1 compression bath cock	net 1 75
No. 4 " "	" 1 90
No. 7 Fuller's	" 2 20
No. 4½, "	" 2 35

Patent Compression Cushion, basin cock, hot and cold, per doz., $31; 5 and 10 per cent. discount.

Patent Compression Cushion, bath cock, No. 2208	2 25
Square head brass cocks, discount 55 per cent	
" " iron "	60 "
Thompson Smoke-test Machine	$25.00

RANGE BOILERS.

Copper, 30 gallon	22 00
" 35 "	24 00
" 40 "	28 00

Discount off copper boilers 15 per cent.

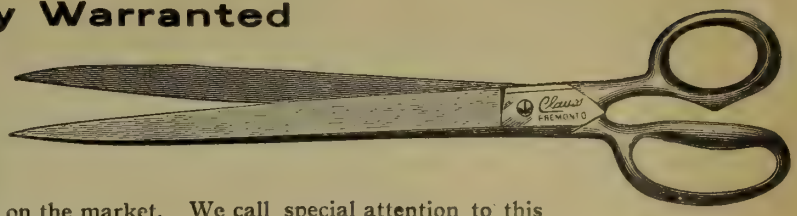
GALVANIZED IRON RANGE BOILERS.

Capacity. Gals.	Standard.	Extra heavy
12	4.50	6.50
18	4.75	6.75
24	4.75	6.75
30	5.00	7.50
35	6.00	8.50
40	7.00	9.50
50	11.00	14.00
66	18.00	20.00
82	21.00	24.00
100	29.00	34.00
120	34.00	40.00
144	47.00	55.00

Clauss Brand

Fully Warranted

Paper Hangers' Shears



Hand forged from finest steel and welded on our composition metal, hardened in water and tempered by natural gas. This shear is made purposely for paper hangers' use, and is more durable than other of its kind on the market. We call special attention to this shear. Japan handles and finely finished blades. Ask for discounts.

Clauss Shear Co., 169 Spadina Avenue, Toronto

SOIL PIPE AND FITTINGS.

Med. and Extra heavy pipe and fittings, dis. 60 per cent.
7 and 8-in. pipe, discount 40 and 5 per cent.

SOLDER.

	Per lb
Bar, half-and-half, guaranteed	0 17½
Wiping	0 15½
Refined	0 16½

PAINTS AND OILS.

COLORS IN OIL.

1-lb. tins, pure.

Venetian red, per lb.	0 08
Chrome yellow	0 15
Golden ochre	0 08
French "	0 06
Marine black	0 04
Chrome green	0 10
French permanent green	0 13
Signwriters' black	0 15

WHITE LEAD.

	Per 100 lb.	
Pure	4 60	4 75
No. 1	4 35	4 50
No. 2	....	4 30
No. 3	....	3 37½
No. 4	....	3 35
Munro's Select Flake White	....	4 75
Elephant and Decorators' Pure	....	4 75
Tiger brand, pure	....	5 00
Decorators' Special for exterior use	....	4 25
Monarch	....	5 00
Decorator's Pure	....	4 75
Essex Genuine	....	4 25
Sterling Pure	....	5 00
Island City Pure	....	5 00
Ramsay's Pure Lead	4 75	5 00
Ramsay's Exterior	4 50	4 75

RED LEAD.

Genuine, 560 lb. casks, per cwt	....	$4 50
Genuine, 100 lb. kegs, "	....	4 75
No. 1, 560 lb. casks, per cwt	4 00	4 25
No. 1, 100 lb. kegs, per cwt	....	4 75

WHITE ZINC.

Extra Red Seal	0 06	0 08
French V. M.	0 06½	0 07
Lehigh	0 06	0 06½
Pure	....	0 07½
No. 1	....	0 06½
No. 2	....	0 05½

DRY WHITE LEAD.

Pure, casks	4 50
Pure, kegs	4 75
No. 1, casks	4 00
No. 1, kegs	4 25

PREPARED PAINTS.

In ¼, ½ and 1-gallon tins.

Pure, per gallon	....	1 20
Second qualities, per gallon	....	1 00
Barn (in bbls.)	0 60	0 90
The Sherwin-Williams paints	....	1 35
Canada Paint Co.'s pure	....	1 25
Toronto Lead & Color Co's pure	....	1 25
Sanderson Pearcy's pure	....	1 20
Standard Co.'s "New Era."	....	1 30
Francis-Frost Co.'s "Ark" B'd	....	1 25
" British Navy deck	....	1 50
Henderson & Potts's "Anchor"	....	1 35
Ramsay's paints, Pure, per gal.	....	1 20
" Thistle, "	....	1 00
" Outside, bbls	0 55	0 65
Island City House Paint	....	1 25
" Floor "	....	1 25
Sterling House Paint	....	1 20
" Floor "	....	1 10
National	....	1 05

PARIS GREEN.

Petroleum, barrels, per lb.	0 13½
Arsenic, kegs	0 13½
50 and 100-lb. drums	0 14
25-lb. drums	0 14½
1-lb. paper boxes	0 15
½-lb. paper boxes	0 17

Terms—2 per cent. off 30 days, or 90 days

PUTTY.

Bulk in bbls.	1 50
Bulk in less quantity	1 80
Bladders in bbls.	1 65 1 75
Bladders in kegs, boxes or loose	1 90
25-lb. tins	1 80
12½ lb. tins	2 05
Bladders in bulk or tins less than 100 lb.	1 85

VARNISHES.

	In 5-gal. lots. Per gal.	Net.
Carriage, No. 1	1 50	1 60
Pale durable body	4 10	4 25
" rubbing	2 85	3 20
Gold size, japan	1 50	1 60
No. 1 brown japan	0 85	0 90
Elastic oak	....	1 50
Furniture, extra	1 10	1 25
" No. 1	0 90	1 00
Hard oil finish	1 35	1 50
Light oil finish	1 60	1 70
Damar	1 75	2 00
Shellac, white	2 40	2 50
" orange	2 30	2 40
Turpentine, brown japan	1 10	1 20
" black japan	1 10	1 20
" " No. 1.	0 85	0 90
Elastilite varnish, 1 gal. can, each		2 00
Granitine floor finish, per gal		2 75
Maple Leaf coach enamels; size 1, size 2, 70c.; size 3, 40c. each.		$1.20
Sherwin-Williams' kopal varnish, case, from to 1 gal., $2.50.		assorted

GLUE.

Common	0 08	0 08½
French medal	0 10	0 14
White, extra	0 18	0 22
Gelatine	....	....
Strip	0 18	0 20
Coopers	0 19	0 20
Huttner	....	....
Ground	0 12	0 16
Cologne, genuine	....	....

HARDWARE.

AMMUNITION.

Cartridges.

B. B. Caps Dominion, 50 and 5 and 25 per cent. American $2.00 per 1000.
C. B. Caps American, $2.60 per 1000.
Rim Fire Pistol, discount 30 p.c., American.
Rim Fire Cartridges, Dominion, 50 and 5 p.c.
Central Fire, Military and Sporting, American, add 20 per cent. to list. B.B. Caps, discount 40 per cent., American.
Central Fire Pistol and Rifle, list net Amer.
Central Fire Cartridges, pistol sizes, Dominion, 30 per cent.
Central Fire Cartridges, Sporting and Military, Dominion, 15 per cent. American 10 per cent. advance on list.
Loaded and empty Shells, "Trap" and "Dominion" grades, 25 per cent. discount. American 20 per cent. discount. Rival and Nitro, 10 per cent. advance on list.
Brass Shot Shells, 55 per cent.
Primers, Dom., 30 per cent.: American $1.75

Wads.	per lb.
Best thick brown or grey felt wads, in ½-lb. bags	$0 70
Best thick white card wads, in boxes of 500 each, 12 and smaller gauges	0 29
Best thick white card wads, in boxes of 500 each, 10 gauge	0 35
Thin card wads, in boxes of 1,000 each, 12 and smaller gauges	0 20
Thin card wads, in boxes of 1,000 each, 10 gauge	0 25

Chemically prepared black edge grey cloth wads, in boxes of 250 each—	Per M.
11 and smaller gauge	0 60
9 and 10 gauges	0 70
7 and 8 "	0 90
5 and 6 "	1 10

Superior chemically prepared pink edge, best white cloth wads, in boxes of 250 each—	
11 and smaller gauge	1 15
9 and 10 gauges	1 40
7 and 8 "	1 65
5 and 6 "	1 90

ADZES.

Discount 22½ per cent.

ANVILS.

Wright's, 80-lb. and over	0 10½
Hay Budden, 80-lb. and over	0 09½
Brook's, 80-lb. and over	0 11½

APPLE PARERS.

Woodyatt Hudson, per doz., net 4 50

AUGERS.

Gilmour's, discount 60 per cent. off list.

AXES.

Chopping Axes		
Single bit, per doz.	7 00	10 00
Double bit, "	10 00	18 00
Bench Axes, 40 per cent.		
Broad Axes, 25 per cent.		
Hunters' Axes	5 50	6 00
Boys' Axes	6 25	7 00
Splitting Axes	7 00	12 00
Handled Axes	....	10 00

AMERICAN AXE AND TOOL CO.

Red Ridge, boys', handled	75
" hunters	5 25

Underhill American Bench Axes, 40 p.c.

AXLE GREASE.

Ordinary, per gross	6 00	7 00
Best quality	10 00	12 00

BELLS.

Hand.

Brass, 60 per cent.
Nickel, 55 per cent.

Cow.

American make, discount 63⅓ per cent.
Canadian, discount 45 and 50 per cent.

Door.

Gongs, Sargant's	5 50	8 00
" Peterboro', discount 50 and 10 per cent. off new list.		

Farm.

American, each	1 35	3 00

House.

American, per lb.	0 35	0 40

BELTING.

Extra, 60 per cent.
Standard, 60 and 10 per cent.
No. 1, not wider than 6 in., 60, 10 and 10 per cent.
Agricultural, not wider than 4 in., 75 per cent.

BITS.

Auger.

Gilmour's, discount 60 per cent.
Rockford, discount 50 and 10 per cent.
Jennings' Gen., net list.

Car.

Gilmour's, 47½ per cent.

Expansive.

Clark's, 40 per cent.

Gimlet.

Clark's, per doz	0 65	0 90
Diamond, Shell, per doz.	1 00	1 50
Nail and Spike, per gross	2 25	5 20

BLIND AND BED STAPLES.

All sizes, per lb.	0 07½	0 12

BOLTS AND NUTS

Carriage Bolts, common ($1 list	Per cent.
" " ⅜ and smaller	60 and 10
" " 7-16 and up	55 and 5
" " full sq. ($2.40 list)	60
" " Norway Iron ($3 list)	60
Machine Bolts, all sizes, ⅜ and less	55
Machine Bolts, 7-16 and up	55 and 5
Plough Bolts	55 and 5
Blank Bolts	55 and 5
Bolt Ends	55 and 5
Sleigh Shoe Bolts	70
Coach Screws, cone point	70 and 5
Nuts, square, all sizes, 4c. per lb. off.	
Nuts, hexagon, all sizes, 4½c. per lb. off.	
Stove Rods per lb., 5½ to 6c.	

BOOT CALKS.

Small and medium, ball per M.	4 25
Small heel "	4 50

BRIGHT WIRE GOODS

Discount 62½ per cent.

BUTCHERS' CLEAVERS.

German per doz.	6 00	9 00
American "	12 00	18 00

BUILDING PAPER, ETC

Tarred Felt, per 100 lb.	1 85
Ready roofing, 2-ply, not under 45 lb. per roll	0 90
Ready roofing, 3-ply, not under 65 lb., per roll	1 15
Carpet Felt per ton	45 00
Heavy Straw Sheathing per ton	35 00
Dry Sheathing per roll, 400 sq. ft.	0 40
Tar " " 400 "	0 50
Dry Fibre " 400 "	0 40
Tarred Fibre " 400 "	0 50
O. K. & I. X. L. " 400 "	0 70
Resin-sized " 400 "	0 45
Oiled Sheathing " 600 "	1 00
Oiled " " 400 "	0 70
Roof Coating, in barrels per gal.	0 17
Roof " small packages "	0 25
Refined Tar per barrel	5 00
Coal Tar "	4 00
Coal Tar, less than barrels per gal.	0 15
Roofing Pitch per 100 lb.	0 80 0 90
Slater's felt per roll	0 60

BULL RINGS.

Copper, $1.30 for 2½-inch, and $1.70

BUTTS.

Wrought Brass, net revised list.

Cast Iron.

Loose Pin, discount 60 per cent

Wrought Steel.

Fast Joint, discount 70 to 70 and 5 per cent
Loose Pin, discount 70 to 70 and 5 per cent.

CARPET STRETCHERS.

American per doz.	1 00	1 50
Bullard's "	....	6 50

CASTORS.

Bed, new list, discount 55 to 57½ per cent.
Plate, discount 52½ to 57½ per cent.

CATTLE LEADERS.

Nos. 32 and 33 per gross	7 50	8 50

CHALK.

Carpenters' Colored, per gross	0 45	0 75
White lump per cwt.	0 60	0 65
Red	0 05	0 06
Crayon per gross	0 14	0 18

CHISELS.

Socket, Framing and Firmer.

Broad's, discount 70 per cent.
Warnock's, discount 70 per cent.
P. S. & W. Extra, discount 60 and 10 per cent.

CLOTHES REELS.

Davis Clothes Reels, dis. 40 per cent

PLANE IRONS.

English per doz.	2 00	5 00

PLIERS AND NIPPERS.

Button's genuine, per doz. pairs, discount 37½ to 40 per cent.

Button's imitation per doz.	5 00	9 00
man "	0 60	0 60

PRESSED SPIKES.

Discount 20 per cent.

PULLEYS.

Hothouse per doz.	0 55	1 00
Axle "	0 22	0 33
Screw "	0 22	1 00
Awning "	0 35	2 50

PUMPS.

Canadian cistern	1 8	6
Canadian pitcher spout	1 4	

EXPANSION.

Thirty years ago Mr. J. W. Paterson, the originator of this Company, commenced business in Montreal with a daily output of **TWO TONS.** To-day we operate three large Modern Factories and an equal number of Paper Mills, with a combined daily output of fully **SEVENTY-FIVE TONS.**

Promptness, Courtesy and the Superior Quality of our Building Papers,

Roofing Felts and Wire-Edged Ready-Roofing have made us successful.

The Paterson Mfg. Co., Limited

Toronto and Montreal.

CONDUCTOR PIPE.

Plain or Corrugated.

2-inch	per 100 feet	3 00
3 "	" "	4 00
4 "	" "	5 25
5 "	" "	6 75
6 "	" "	9 00

CRADLES, GRAIN.

Canadian, discount 20 to 25 per cent.

CROSSCUT SAW HANDLES.

S. & D., No. 3	per pair	0 15
S. & D., " 5	"	0 22½
S. & D., " 6	"	0 15
Boynton pattern	"	0 20

DOOR SPRINGS.

Torrey's Rod	per doz.	1 75
Coil, 9 to 11 in	" 0 95	1 65
English	" 2 00	4 00

DRAW KNIVES.

Coach and Wagon, discount 70 per cent. new list.
Carpenters' discount 70 per cent.

DRILLS.

Hand and Breast.

Millar's Falls, per doz., net list.

DRILL BITS.

Morse, discount 37½ to 40 per cent.
Standard, discount 50 and 5 to 55 per cent.

FAUCETS.

Common, cork-lined, discount 35 per cent.

EAVETROUGHS.

10-inch per 100 ft. 10 00

ELBOWS (stovepipe.)

5 and 6-inch, common	per doz.	1 20
7-inch	"	1 35

Polished, 15c. per dozen extra.

ESCUTCHEONS.

Discount 50 and 10 per cent., new list

ESCUTCHEON PINS.

Iron, discount 40 per cent.

FACTORY MILK CANS.

Discount off revised list, 40 per cent.

FILES AND RASPS.

Great Western	70 and 10 per cent.
Arcade	70 " 10 "
Kearney & Foot	70 " 10 "
Disston's	70 " 10 "
American	70 " 10 "
J. Barton Smith	70 " 10 "
McClellan	70 " 10 "
Eagle	70 " 10 "
Nicholson, 60 and 10 to 60, 10 and	5 "
Royal	80 "
Globe	70 to 75 "

Black Diamond, 60 and 10 to 60, 10 and 5 per cent.
Jowitt's, English list, 25 to 27½ per cent.
Nicholson File Co.'s "Simplicity" file handle, per gross 85c. to $1.50

GLASS.

Window. Box Price.

Size United Inches.	Star Per 50 ft.	Star Per 100 ft.	D. Diamond Per 50 ft.	D. Diamond Per 100 ft.
Under 26	3 80		5 06	
26 to 40	4 00		5 44	
41 to 50	4 50		6 56	
51 to 60	4 75		7 50	
61 to 70	5 00		8 62	
80	5 30		9 38	
85			10 75	
86 to 90			12 30	
91 to 95			15 00	
96 to 100			18 00	
96 to 100			18 00	

GAUGES.

Marking, Mortise, Etc.

Stanleys discount 50 to 55 per cent.

Wire Gauges.

Winn's, Nos. 26 to 33 ....each 1 65 2 40

GILLETT'S POWDERED LYE.

1-case, $3.70; 3-case, $3.60; 5-case and over, $3.50.

HALTERS.

Rope, ⅜-inch	per gross	9 00
Rope, ½ "	"	12 00
Rope, ⅝ to ¾-inch	"	14 00
Leather, 1-inch	per doz.	4 00
Leather, 1¼ "	"	5 20
Web	"	2 45

HAMMERS.

Nail.

Maydole's, discount 5 to 10 per cent. Canadian discount 25 to 27½ per cent.

Tack.

Magnetic	per doz.	1 10 1 20

Sledge.

Canadian	per lb.	0 07 0 08½

Ball Pean.

English and Canadian, per lb.		2½ 2 25

HANDLES.

Axe, 2nd growth, per doz. net		3 00 4 00
Store door	per doz.	1 00 1 50

Fork.

C. & B., discount 40 per cent., revised list.

Hoe.

C. & B., discount 40 per cent., revised list.

Saw.

American	per doz	1 00 1 25

Plane.

American	per gross	3 15 3 75

Hammer and Hatchet.

Canadian, discount 40 per cent.

HANGERS.

	doz. pairs.	
Steel barn door	8 00	10 00
Stearns, 4-inch		4 50
" 5-inch		6 00
Zenith		9 00
Lane's covered—		
No. 11, 5-foot run		8 40
No. 11½, 10-foot run		10 80
No. 12, 10-foot run		12 60
No. 14, 15-foot run		21 00
Steel, covered	4 00	11 00
" track, 1 x 3-16 in(100 ft)		3 75
" " 1½ x 3-16 in(100 ft)		4 75

HARVEST TOOLS.

Discount 60 per cent.
S. & D. lawn rakes, Dunn's, 40 off.
" sidewalk and stable scrapers, 40 off.
" Maple Leaf and Premiums saw sets, 40 off.
" saw swages, 40 off.

HATCHETS.

Canadian, discount 40 to 42½ per cent.

Shingle, Red Ridge 1, per doz		4 40
" " 2,		4 85
Barrel, Underhill		5 00

HAT ENAMEL.

Henderson & Potts' 'Anchor Brand'

HINGES.

Blind, Parker's, discount 60 per cent.

Heavy T and strap, 4-in., per lb		0 06½
" " 5-in., "		0 06½
" " 6-in., "		0 06
" " 8-in., "		0 05½
" " 10-in., "		0 05½
Light T and strap, discount 65 and 5 per cent.		
Screw hook and hinge—		
6 to 10 in	per 100 lb.	4 50
12 in. up		3 25
Spring, No. 20, per gro. pairs		10 80

Spring, Woodyatt pattern, per gro., No. 5, $17.50; No. 10, $18; No. 20, $10.80; No. 120, $20; No. 51, $10; No. 50, $27.50.

HOES.

Garden, Mortar, etc., discount 60 per cent.

Planter	per doz.	4 00 4 50

HOLLOW WARE

Tinned c 35 per cent.

HOOKS.

Cast Iron.

Bird cage	per doz.	0 50 1 10
Clothes line, No. 61	"	0 00 0 70
Harness	"	0 60 12 00
Hat and coat	per gro.	1 10 10 00
Chandelier	per doz.	0 50 1 00

Wrought Iron.

Wrought hooks and staples Canadian discount 60 per cent.

Wire.

Hat and coat, discount 60 per cent.

Belt	per 1,000	0 60

Screw, bright, discount 62½ per cent.

HORSE NAILS.

"P.B." Brand, 55 to 60 per cent.
'C' brand, 40, 10 and 7½ per cent. off list { Oval
M.R.M. Co. brand, 55 per cent. { head
"Monarch," 50 and 7½ per cent.
'Peerless' 50 per cent. dis.

HORSESHOES.

F.O.B. Montreal

"P.B." brand, new pattern, base	$3 50
M.R.M. Co. brand, base	3 65

Add 15c. Toronto, Hamilton, Guelph.

JAPANNED WARE.

50 per cent.

PICKS.

Star	per doz.	3 00 3 25

KETTLES.

Brass spun 7½ per cent. discount off new list.

Copper	per lb.	0 30 0 50

American, 60 and 10 to 65 and 5 per cent.

KEYS.

Lock, Canadian dis. 40 to 40 and 10 per cent.
Cabinet trunk and padlock
American per gross 0 60

KNOBS.

Door, japanned and N.P., per doz	1 50	2 50
Bronze, Berlin	per doz.	2 75 3 25
Bronze, Genuine	"	6 00 9 00
Shutter, porcelain, F. & L. screw	per gross	1 30 2 00
White door knobs	per doz.	2 00

HAY KNIVES.

Net prices.

LAMP WICKS.

Discount, 60 per cent.

LADDERS, EXTENSION.

Waggoner Extension Ladders, dis. 40 per cent.

LANTERNS.

Cold Blast	per doz.	4 50
No. 3, "Wright's"	"	8 50
Ordinary, with O burner	"	4 00
Dashboard, cold blast	"	9 00
No. 0	"	5 75

Japanning, 50c. per doz. extra.

LEMON SQUEEZERS.

Porcelain lined	per doz.	2 20 5 60
Galvanized	"	1 87 3 85
King, wood	"	2 75 2 90
King, glass	"	4 00 4 50
All glass	"	0 50 0 90

LAWN MOWERS FOR 1905.

Woodyatt, 10½-in., 14-in. cut	$ 8 50 to	$11 00
Star, 9 -in.	" 6 00 to	6 50
Daisy, 8 -in.	" 5 25 to	5 75
Philadelphia, 7½-in.	" 6 00 to	7 50
Woodyatt, 10½-in., ball bearing	13 25 to	18 00
Grass Boxes	1 75 to	2 00
King Edw'd 12-in., 14-in. cut	9 00 to	10 00

Horse Lawn Mowers, "Special."

Discount, 50 per cent., with freight concessions in quantity shipments.

Maxwell & Sons

10½-in. high wheel	0	10 00
9-in	5 50	6 25
8-in	4 90	5 50

Discount 50 per cent.

LOCKS.

Canadian, 50 to 50 and 10 per cent.
Russell & Erwin, steel rim ...per doz. 2 25

Cabinet.

Eagle, discount 30 per cent.

Padlocks.

English and Am	per doz.	0 50 6 00

Eagle, discount 20 to 25 per cent.

MACHINE SCREWS.

Iron and Brass.

Flat head, discount 25 per cent.
Round head, discount 20 per cent.

MALLETS.

Tinsmiths'	per doz.	1 25 1 50
Carpenters', hickory,	"	1 25 3 75
Lignum Vitae	"	3 85 5 00
Caulking, each		0 60 2 00

MATTOCKS.

Canadian	per doz.	5 50 6 00

MEAT CUTTERS.

American, discoun 3⅓ per cent.
German, 15 per cen
Gem ....each 1 15

MILK CAN TRIMMINGS.

Discount 25 per cent.

NAILS.

	Cut.	Wire
2d	3 40	3 25
3d	3 05	2 90
4 and 5d	2 80	2 65
6 and 7d	2 70	2 55
8 and 9d	2 55	2 40
10 and 12d	2 50	2 35
16 and 20d	2 45	2 30
30, 40, 50 and 60d (base)	2 40	2 25

F.o.b. Toronto.
Steel cut nails 10c. extra.
Miscellaneous wire nails, discount 75 per cent.
Coopers' nails, discount 30 per cent.

NAIL PULLERS.

German and American	85	2 50
No. 1	85	
No 1573	75	

NAIL SETS.

Square, round and octagon, per gross	3 38
Diamond	1 00

POULTRY NETTING.

2-in. Mesh, 19 w.g., dis. 60 per cent.
2-in. Mesh 16 w.g. 60 per cent.
Smaller than 2 in. dis. 55 per cent.

OAKUM.

U. S. Navy	per 100 lb.	6 75
Plumbers	"	3 00

OILERS.

McClary's Model galvanized oil can, with pump, 5 gallon, per dozen 10 00

Davidson oilers, discount 40 per cent.		
Zinc and tin, discount 50, 50 and 10 per cent.		
Copper	per doz.	1 25 3 50
Brass	"	1 50 3 50

Malleable, discount 25 per cent

GALVANIZED PAILS.

Dufferin pattern pails, discount 47½ per cent
Flaring pattern, discount 47½ per cent.
Galvanized washtubs, discount 47½ per cent.

PIECED WARE.

Discount 40 per cent off list, June, 1899.
10-qt. flaring sap buckets, discount 40 per cent
6, 10 and 14-qt. flaring pails dis. 40 per cent.
Creamer cans, discount 40 per cent.

PICKS.

Per dozen		6 00 9 00

PICTURE NAILS.

Porcelain head	per gross	1 35 1 50
Brass head	"	0 40 1 00

PICTURE WIRE.

Tin and gilt, discount 75 per cent.

PINE TAR.

½ pint in tins	per gross	7 80
1 " "	"	9 60

PLANES.

Wood bench, Canadian discount 40 per cent.
American discount 50 per cent.
Wood, fancy Canadian or American 37½ to 40 per cent

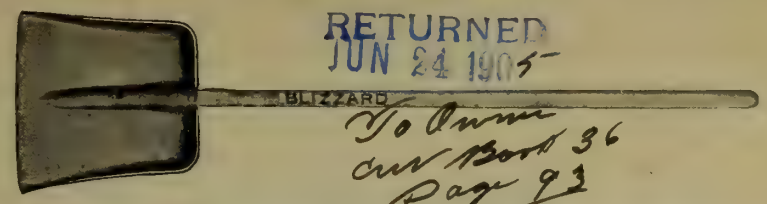
THE BLIZZARD

Solid, Strong, Steel Shovel for Stable, Store or Furnace

RETURNED JUN 24 1905

To Ourvue our Book 36 Page 93

Crowning at point for Cutting Ice.



Two Sizes: No. 1, 14 in. wide; No. 2, 9¼ in. wide.

Factories: NEWMARKET, ONT.

Branches: WINNIPEG, OTTAWA, MONTREAL.

The best and strongest STEEL SHOVEL of its kind ever offered to the trade. Write for quotations.

THE OFFICE SPECIALTY MFG. CO., LIMITED

Everything in Business Furniture and and Card Systems in Stock.

97-105 Wellington St. West, (near York), TORONTO

PUNCHES.

Saddlers .....per doz.	1 00	1 85
Conductor's..... "	3 00	15 00
Tinners', solid.....per set	....	0 72
" hollow.....per inch	....	1 00

RAKES.

Wood.....per doz. net 1 20 up

RAZORS. per doz.

Elliot's	4 00	18 00
Geo. Butler's & Co.'s	4 00	18 00
Boker's	7 50	11
" King Cutter	13 50	18 50
Wade & Butcher's	3 60	10 00
Wilkinson's	....	12 50
Carbo Magnetic	....	15 00
Griffon Barber's Favorite	....	10 75
Griffon No. 65	....	13 00
Griffon Safety Razors	....	13 50
Griffon Stropping Machines	....	13 50
Lewis Bros. "Klean Kutter"	8 50	10 50
Hindoo	10 50	14 00
Orgsteom's Swedish	3 50	10 00
Henckel's	7 50	20 00

Clauss, 50 and 10 per cent.
Clauss Strops, 50 and 10 per cent.

REGISTERS.

Discount 40 per cent.

RIVETS AND BURRS.

New List.

Iron Rivets, black and tinned, 60 and 10 and 10 per cent.
Iron Burrs, discount 60 and 10 and 10 p.c.
Copper Rivets, with usual proportion burrs, 45 per cent.
Copper Burrs only, discount 30 and 10 per cent.
Extras on Tinned or Coppered Rivets, ½-lb. packages 1c. per lb.; ¼-lb. packages 2c. lb.

RIVET SETS.

Canadian, discount 35 to 37½ per cent.

ROPE, ETC.

Sisal		0 11
Pure Manilla		0 14½
"British" Manilla		0 11
Cotton, 3-16 inch and larger	0 21	0 23
" 5-32 inch	0 25	0 27
" ¼ inch	0 25	0 28
Russia Deep Sea		0 16
Jute		0 09
Lath Yarn, single		0 10
" double		0 10½
Sisal bed cord, 48 feet.....per doz.		0 65
" " 60 feet "		0 80
" " 72 feet "		0 95

RULES.

Boxwood, discount 70 per cent.
Ivory, discount 20 to 25 per cent.

SAD IRONS.

Mrs. Potts, No. 55, polished....per set		0 75
" No. 50, nickle-plated, "		0 80
Common, plain		4 50
" plated		5 50

SAND AND EMERY PAPER.

B. & A. sand, discount, 40 and 5 per cent
Emery, discount 40 per cent.
Garnet (Rurton's) 5 to 10 per cent. advance on list.

SAP SPOUTS.

Bronzed iron with hooks....per 1,000		7 50
"Eureka" tinned steel, hooks "		8 00

SAWS.

Hand, Disston's, discount 12½ per cent
S. & D., discount 40 per cent.
Crosscut, Disston's....per foot 035 0 55
S. & D., discount 35 per cent. on Nos. 2 and 3.

Hack, complete.....each	0 75	2 75
" frame only.....each	0 50	1 25

S. & D. solid tooth circular shingle, concave and band, discount 50 per cent.
" " mill and ice, drag, discount 30 per cent
" " cross-cut, discount 35 per cent.
" " hand saws, butcher, disc't 40 per cent
" " compass, pruning and back, discount 45 per cent.

" buck, New Century	$6 25
" " No. 1 Maple Leaf	5 25
" " Happy Medium	4 25
" " Watch Spring	4 25
" " common frame	4 00

SASH WEIGHTS.

Sectional.....per 100 lb.	2 00	2 25
Solid "	1 50	1 75

SASH CORD.

Per lb..... 0 28 0 30

SAW SETS. per doz.

Lincoln and Whiting	4 75
Hand Sets, Perfect	4 00
X-Cut Sets, "	7 50

SCALES.

Gurney Standard, 40 per cent.
Gurney Champion, 50 per cent.
Burrow, Stewart & Milne—
Imperial Standard, discount 40 per cent.
Weigh Beams, discount 35 per cent.
Champion Scales, discount 50 per cent.
Fairbanks standard, discount 35 per cent.
" Dominion, discount 55 per cent
" Richelieu, discount 55 per cent.
Warren's new Standard, discount 40 per cent.
" " Champion, discount 50 per cent.
" Weighbeams, discount 35 per cent.

SCREW DRIVERS.

Sargent's .....per doz. 0 65 1 00

SCREEN DOORS.

Common doors, 2 or 3 panel, walnut stained, 4-in. style.....per doz. 6 50
Common doors, 2 or 3 panel, yellow and green stained, 4-in. style....per doz. 6 75
Common doors, 2 or 3 panel, in natural colors, oil finish .....per doz. 8 75
3-in. style 20c. per dozen less.

SCREWS.

Wood, F. H., bright and steel, discount 87½ per cent.
Wood, R. H., bright, dis. 82½ per cent.
" F. H., brass, dis. 80 per cent.
" R. H., " dis. 75 per cent.
" F. H., bronze, dis. 75 per cent.
R. H., " dis. 70 per cent.
Drive Screws, dis. 87½ per cent.

Bench, wood .....per doz.	3 25	4 00
" iron "	4 25	5 00

Set, case hardened, dis. 60 per cent.
Square Cap, dis. 50 and 5 per cent.
Hexagon Cap, dis. 45 per cent.

SCYTHES.

Per doz. net..... 6 00 9 00

SCYTHE SNATHS.

Canadian, discount 40 per cent.

SHEARS.

Clauss, nickel, discount 80 per cent.
Clauss, Japan, discount 67½ per cent.
Clauss, tailors, discount 40 per cent.
Seymour's, discount 50 and 10 per cent.

SHOVELS AND SPADES.

Canadian, discount 45 per cent.

SINKS.

Cast iron, 16 x 24		0 85
" 18 x 30		1 00
" 18 x 36		1 40

SNAPS.

Harness, German, discount 25 per cent.
Lock, Andrews' 4 50 11 50

SOLDERING IRONS.

1, 1½-lb.....per lb.	....	0 37
2-lb. or over "	....	0 34

SQUARES.

Iron, No. 492 .....per doz.	1 90	2 25
" No. 493 "	2 40	2 55
" No. 494 "	3 25	3 40

Steel, discount 60 and 5 to 65 per cent.
Try and Bevel, discount 50 to 52½ per cent.

STAMPED WARE.

Plain, discount 75 and 12½ per cent. off revised list.
Retinned, discount 75 per cent. off revised list

STAPLES.

Galvanized	....	3 00
Plain	....	2 80

Coopers', discount 45 per cent.
Poultry netting staples, discount 40 per cent.

STOCKS AND DIES.

American discount 25 per cent.

STONE.

Washita.....per lb.	0 28	0 60
Hindostan "	0 06	0 07
" slip "	0 09	0 09
Labrador "	....	0 13
" Axe "	....	0 15
Turkey "	....	0 50
Arkansas "	....	1 50
Water-of-Ayr "	....	0 10
Scythe .....per gross	3 50	5 00
Grind, 40 to 200 lb., per ton	....	25 00
" under 40 lb., "	....	28 00
" 200 lb. and over	....	31 00

STOVEPIPES.

5 and 6 inch, per 100 lengths	....	7 00
7 inch " "	....	7 50

TACKS, BRADS, ETC.

Carpet tacks, blued	80 and 15
" " tinned	80 and 20
" " (in kegs)	40
Cut tacks, blued, in dozens only	80
" ½ weights	60
Swedes cut tacks, blued and tinned—	
In bulk	80 and 10
In dozens	75
Swedes, upholsterers', bulk...85, 12½ and 12½	
" brush, blued and tinned bulk	70
Swedes, gimp, blued, tinned and japanned	75 and 12½
Zinc tacks	35
Leather carpet tacks	55
Copper tacks	50
Copper nails	52½
Trunk nails, black	65 and 5
Trunk nails, tinned	65 and 10
Clout nails, blued	65 and 5
Chair nails	35
Patent brads	40
Fine finishing	40
Lining tacks, in papers	10
" " in bulk	15
" " solid heads, in bulk	75
Saddle nails, in papers	10
" " in bulk	15
Tufting buttons, 22 line, in dozens only	60
Zinc glaziers' points	5
Double pointed tacks, papers	90 and 10
" " bulk	40
Clinch and duck rivets	45

TAPE LINES.

English, ass skin.....per doz.	2 75	5 00
English, Patent Leather	5 50	9 75
Chesterman's.....each	0 90	2 85
" steel.....each	0 80	8 00

TINNERS' SNIPS.

Per doz	3 00	15 00

Clauss, discount 35 per cent.

THERMOMETERS.

Tin case and dairy, 75 to 75 and 10 per cent.

TRAPS (steel.)

Game, Newhouse, discount 25 per cent.
Game, H. & N., P. S. & W., 45 and 5 per cent.
Game, steel, 60 and 5 per cent.

TROWELS.

Disston's, discount 10 per cent.

German.....per doz.	4 75	6 00

S. & D., discount 35 per cent.

TWINES.

Bag, Russian .....per lb.	....	0 27
Wrapping, cotton, 3-ply	....	0 24
" " 4-ply	....	0 27
Mattress .....per lb.	0 33	0 45
Staging "	0 27	0 35

VISES.

Wright's	....	0 13½
Brook's	....	0 12½
Pipe Vise, Hinge, No. 1	....	3 50
" " " No. 2	....	5 50
Saw Vise	4 50	9 00

Columbia Hardware Co.

Blacksmiths' (discount)	60 per cent.
" parallel (discount)	45 per cent

ENAMELLED WARE.

White, Princess, Turquoise, Blue and White discount 50 per cent.
Diamond, Famous, Premier, discount 50 and 10 per cent.
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"Star" decorated steel and decorated whit 25 per cent.

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10 "	6c. extra.
11 "	12c. "
12 "	20c. "
13 "	30c. "
14 "	40c. "
15 "	55c. "
16 "	70c. "

Add 60c. for coppering and $2 for tinning.
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Fine Steel Wire, discount 27½ per cent. List of extras: In 100-lb. lots: No. 17, $5—No. 18, $5.50—No. 19, $6—No. 20, $6.65—No. 21, $7—No. 22, $7.30—No 23, $7,65—No. 24, $8—No. 25, $9—No. 26, $9.50—No. 27, $10—No. 28, $11—No. 29, $12—No. 30, $13—No. 31, $14—No. 32, $15—No. 33, $16—No. 34, $17. Extras net—tinned wire, Nos. 17-25, $2—Nos. 26-31, $4—Nos. 32-34, $6. Coppered, 5c.—oiling, 10c.—in 25-lb. bundles, 15c.—in 5 and 10-lb. bundles, 25c.—in 1-lb. hanks, 25c.—in ½-lb. hanks, 38c.—in ¼-lb. hanks, 50c.—packed in casks or cases, 15c.—bagging or papering, 10c.
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Copper wire, discount 60 per cent. net cash 30 days, f.o.b factory.
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INDEX TO ADVERTISERS.

A

Acme Can Works 55
Acme Lathe & Products Co 45
American Shearer Mfg. Co 29
American Steel and Wire Co 4
Anglo-Canadian Supply Co 58
Atkins, E. C., & Co 61
Armstrong Bros 51
Atlas Mfg. Co 64

B

Barnett, G. & H. Co ....outside back cover
Bayliss, Jones & Bayliss 1
Birkett, Thos., & Son Co. 1
Boss Machine Co 4
Bradstreet's 72
Brantford Cordage Co 11

C

Canada Brass Rolling Mills 31
Canada Foundry Co. 57
Canada Horse Nail Co 53
Canada Iron Furnace Co 39
Canada Metal Co 26
Canada Paint Co 52
Canada Paper Co 29
Canadian Fairbanks Co 10
Canadian Heating & Ventilating Co 59
Canadian Rubber Co 14
Canadian Sewer Pipe Co 64
Canadian Steel and Wire Co 55
Clauss Shear Co 67
Concrete Block Machine Co 64
Connor, J. H., & Sons 64
Consumers' Cordage Co 12
Covert Mfg. Co 57
Cutts, C. M. & Co 51

D

David, R. Sullivan 47
Davidson, Thos., Mfg. Co 2
Dennis Wire and Iron Co 51
Deseronto Iron Co 39
Dods, P. D., & Co 51
Dominion Belting Co 8
Dorken Bros. .....outside front cover, 13

E

Enterprise Mfg. Co., of Akron, Ohio 72
Erie Specialty Co 72

F

Fabien, C. P 47
Falkiner, H. F 58
Ferrosteel Co 27
Frothingham & Workman 11

G

Gelinas, Fred 46
Gibb, Alexander 28
Gies, Philip 29
Gilbertson, W., & Co 57
Glauber Brass Co 29
Great West Wire Fence Co 45
Greening, B., Wire Co 9
Grey & Bruce Portland Cement Co 63
Grove Chemical Co 51
Gurney Foundry Co 31, 59
Gurney, Tilden Co 61
Gutta Percha and Rubber Mfg. Co ....outside back cover

H

Hamilton Cotton Co 70
Hamilton Rifle Co 70
Hanover Portland Cement Co 63
Hart & Cooley Co 27
Heinisch, R., Sons Co 8
Henderson, J. A 47
Henderson & Potts Co 50
Hobbs Hardware Co 5
Hobbs Mfg. Co 63
Howland, H. S., Sons & Co 19
Hyde, F. & Co 39

I

Imperial Varnish and Color Co 48
Ironside, Son & Co 47

J

Jackson, C. F., & Co 39
Jamieson, R. C., & Co 49
Jardine, A. B., & Co. 29
Jenking, A C 57
Jenkins Bros. 25
Johnson's, Iver, Arms and Cycle Works 18
Johnston, Rd., Clapham & Morris. 13

K

Kemp Mfg. Co 14
Kerr Engine Co 22
Kohler, F. E., & Co 57

L

Leslie, A. C., & Co 39
Lewis Bros. & Co. 3
Lewis, Rice, & Son ..... inside front cover
Lockerby & McComb 61
London Rolling Mill Co. .inside back cover
Loughead, J. S., & Son 57
Lucas, John & Co 49
Lufkin Rule Co .....inside back cover
Lysaght, John. .....outside front cover

M

Mackenzie Bros 45
Manufacturers List Co 45
Maple Leaf Harvest Tool Co 7
Mast, J. M., Mfg. Co 8
Maxwell, D., & Sons 13
Mechanics' Supply Co 23
Metallic Roofing Co 41
Merrell Mfg. Co 22
Morton, B. K., & Co 39
Morrison, James, Brass Mfg. Co 20
Morrow, John. Machine Screw Co 45
Mueller, H., Mfg. Co 23
Munderloh & Co 30

Mc

McArthur, Alex., & Co 66
McCaskill, Dougall & Co 51
McClary Mfg. Co 32
McDougall, R., Co 39
McGregor-Banwell Fence Co 28

N

Naturo Co 24
Newman, W., & Sons 63
Nicholson File Co 57
North Bros. Mfg. Co 1
North West Machinery & Iron Co 28
Nova Scotia Steel and Coal Co 39

O

Oakey, John, & Sons 58
Office Specialty Mfg. Co 69
Oneida Community .....inside back cover
Ontario Tack Co 16
Ontario Wind Engine and Pump Co 63
Oshawa Steam & Gas Fitting Co 25
Owen Sound Wire Fence Co 9

P

Page-Hersey Iron and Tube Co 29
Paterson Mfg. Co 68
Pearce, Frank, & Co 28
Pedlar People 63, 65
Penberthy Injector Co 49
Phillips, Chas. D 63

R

Ramsay, A., & Son Co 8, 27
Ross, J. A 8
Round, John, & Son 10
Royal Paper Mills Co ....inside back cover
Russell & Erwin Mfg. Co 11

S

Sadler & Haworth .....outside back cover
Samuel, M. & L., Benjamin, & Co 2
Sanderson-Harold Co 31
Saunders, Franklin & Co 57
Scott, Greenwood & Co 51
Sell's Commercial 70
Seymour, Henry T., Shear Co 8
Sharratt & Newth 8
Shaw, A., & Son 8
Sherwin-Williams Co 17
Silica Barytic Stone Co 64
Skedden Brush Co 49
Smith & Hemenway Co 29
Solarine Metal Polish 58
Standard Ideal Sanitary Co 20
Standard Paint and Varnish Works 51
Stanley Rule and Level Co 43
Stauntons Limited 55
Steel Trough and Machine Co 46
Stephens, G. F., & Co 44
Summers, John, & Sons 6

T

Tarbox Bros 47
Taylor-Forbes Co ..... outside front cover
Thompson, B. & S. H., Co ..... outside back cover
Thorne, R. E 28
Toledo Pipe Threading Machine Co 27
Turnbull & Henderson 28

U

United Brass Mfg. Co 25
Utica Drop Forge and Tool Co 29

V

Voss Bros. Mfg. Co 9

W

Walker Steel Range Co 59
Wallace Barnes Co 29
Walter, E. F., & Co 4
Welsh Tinplate & Metal Stamping Co 6
Western Wire Nail Co 8
Wilcox Mfg. Co 6
Wilkinson Sword Co 72
Winnipeg Paint and Glass Co 45
Wright, E. T., & Co 58

CLASSIFIED LIST OF ADVERTISEMENTS.

Aluminum Castings.
Canadian Aluminum Works Montreal.

Anvils.
Taylor-Forbes Co., Guelph, Ont.

Art Glass.
Hobbs Mfg. Co., London, Ont.

Ash Sifter.
Cutts, C. M., & Co., Toronto Junction.

Babbitt Metal.
Canada Metal Co., Toronto.
Canadian Fairbanks Co., Montreal.

Belting, Hose, etc.
Birkett, Thos., & Co., Ottawa.
Canadian Rubber Co. of Montreal.
Dominion Belting Co., Hamilton, Ont.
Gutta Percha and Rubber Mfg. Co., Toronto.
Sadler & Haworth Montreal & Toronto.

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Johnson's, Iver, Arms and Cycle Works, Fitchburg, Mass.

Box Straps.
Warminton, J. N., Montreal.

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Canada Brass Rolling Mills, Toronto.
Glauber Brass Mfg. Co., Cleveland, Ohio.
Lewis, Rice, & Son., Toronto.
Morrison, Jas., Brass Mfg. Co., Toronto.
Nicklin, J., & Co., Birmingham, Eng.
Penberthy Injector Co., Windsor, Ont.
Taylor-Forbes Co., Guelph, Ont.
United Brass Mfg. Co., Cleveland, Ohio.

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Thorne, R. E., Montreal.

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Silica Barytic Stone Co., Ingersoll, Ont.
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Stanley Works, New Britain, Conn.
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Waggoner Ladder Co., London, Ont.
Warnock, James, Galt, Ont.

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Lougheed, J. S., & Son, Sarnia, Ont.

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Concrete Block Machine Co., Toronto.

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Brantford Cordage Co, Brantford, Ont.
Consumers' Cordage Co., Montreal.
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Erie Specialty Co., Erie, Pa.

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Heinisch's, R., Sons Co., Newark, N.J.
Rouud, John, & Son, Sheffield, Eng.
Silberstein, A. L., New York.
Smith & Hemenway Co., New York.
Walter, E. F., & Co., Montreal.
Wiebusch & Hilger. New York.
Wilkinson Sword Co., London, Eng.

Electric Fixtures.
Canadian Aluminum Works, Montreal.
Mechanics' Supply Co., Quebec.
Morrison James, Mfg. Co., Toronto.
Munderloh & Co., Montreal.

Fence Machines.
London Fence Machine Co., London.

Files and Rasps.
Barnett Co., G. & H., Philadelphia, Pa.
Disston, Henry & Sons, Philadelphia, Pa.
Grose, Walter, Montreal.

Financial Institutions
Bradstreet Co.
British America Assurance Co., Toronto.
Canadian Bank of Commerce, Toronto.
Confederation Life Ass., Toronto.
Metropolitan Bank, Toronto.
Reed, Joseph B., & Son, Toronto.
Western Assurance Co., Toronto.

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Hamilton Rifle Co., Plymouth, Mich.
Harrington & Richardson Arms Co., Worcester, Mass.
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Walter, E. F., & Co., Montreal.

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Peck Rolling Mills Co., Montreal.

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Gurney Foundry Co., Toronto.

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North Bros. Mfg. Co., Philadelphia, Pa.

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Erie Specialty Co., Erie, Pa.
North Bros. Mfg. Co., Philadelphia, Pa.

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Morrison, Jas., Brass Mfg. Co., Toronto.
Penberthy Injector Co., Windsor, Ont.

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Montreal Rolling Mills Co., Montreal
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McDougall, R., Co., Galt, Ont.

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Waggoner Ladder Co., London, Ont.

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Kemp Mfg. Co., Toronto.
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Sherwin-Williams Co., Montreal.
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Canadian Portland Cement Co., Toronto
Grey & Bruce Portland Cement Co., Owen Sound.
Hanover Portland Cement Co., Hanover, Ont.
Hyde, F., & Co., Montreal.
Thompson, B. & S. H. & Co., Montreal.

Pottery.
Foster Pottery Co., Hamilton, Ont.

Poultry Netting.
Greening, B., wire Co., Hamilton, Ont.
Page Wire Fence Co., Walkerville, Ont.

Refrigerators.
Davidson, Thos., Mfg. Co., Montreal.
Fabien, C. P., Montreal
Sanderson-Harold Co., Paris, Ont.

Registers.
Ferrosteel Co., Cleveland, Ohio.
Hart & Cooley Co., New Britain, Conn.

Roofing Supplies.
Jenking, A. C., & Co., Montreal.
McArthur, Alex., & Co., Montreal
Metal Shingle & Siding Co., Preston, Ont.
Metallic Roofing Co., Toronto.
Paterson Mfg. Co., Toronto & Montreal.
Pedlar People, Oshawa.
Taylor-Forbes Co., Guelph, Ont.

Sad Irons.
Dover Mfg. Co., Canal Dover, Ohio.

Saws.
Atkins, E. C., & Co., Indianapolis, Ind.
Disston, Henry, & Sons, Philadelphia, Pa.
Shurly & Dietrich, Galt, Ont.

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Canadian Fairbanks Co., Montreal.
New Warren Scale Co., Montreal.

Screen Doors and Windows.
Sanderson-Harold Co., Paris, Ont.

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Bayliss, Jones & Bayliss, Wolverhampton, Eng.
Canada Foundry Co., Toronto.
Montreal Rolling Mills Co., Montreal.
Morrow, John, Machine Screw Co. Ingersoll, Ont.

Sewer Pipes.
Canadian Sewer Pipe Co., Hamilton
Hyde, F., & Co.. Montreal.

Shelf Brackets.
Atlas Mfg. Co., New Haven, Conn

Silverware.
Toronto Silver Plate Co., Toronto.
Round, John, & Son, Sheffield, Eng.

Stable Fixtures.
Greening, B., Wire Co., Hamilton, Ont.
Oneida Community Co., Niagara Falls Ont.

Steel Rails.
Algoma Steel Co—Drummond, McCall & Co., Agents, Montreal.
Jackson, C. F., & Co., Vancouver, B.C.
Morton, B. K., & Co., Sheffield, Eng.
Nova Scotia Steel & Coal Co., New Glasgow, N.S.

Storage Warehouse.
Mackenzie Bros., Winnipeg.

Stoves and Tinware, Radiators, Furnaces, etc.
Canadian Heating & Ventilating Co. Owen Sound.
Davidson, Thos., Mfg. Co., Montreal.
Gies, P., Berlin, Ont.
Gurney Foundry Co., Toronto.
Kemp Mnfg. Co., Toronto.
McClary Mfg. Co., London.
Ross, J. A., Winnipeg, Man.
Smart, Jas., Mfg. Co., Brockville, Ont.
Telephone City Stores, Brantford, Ont.
Walker Steel Range Co., Grimsby, Ont.
Wright, E. T., & Co., Hamilton.

Tacks.
Ontario Tack Co., Hamilton.
Peck Rolling Mills Co., Montreal.

Traps.
Mast, J. M., Mfg. Co., Lititz, Pa.

Troughs—Hog.
Steel Trough and Machine Co., Tweed, Ont

Typewriters and Supplies.
United Typewriter Co., Montreal.

Wall Paper.
Stauntons Limited, Toronto.

Washing Machines, etc
Boss Washing Machine Co., Cincinnati, O.
Connor, J. H., & Son, Ottawa.
Dowswell Mfg. Co., Hamilton, Ont.
Taylor Forbes Co., Guelph, Ont.
Voss Bros. Mfg. Co., Davenport, Iowa.

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Birkett, Thos., & Sons Co., Ottawa.
Frothingham & Workman, Montreal.
Howland, H. S., Sons & Co., Toronto.
Kennedy Hardware Co., Toronto.
Lewis Bros. & Co., Montreal.
Lewis, Rice, & Son, Toronto.

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Hobbs Mfg. Co., London, Ont.
Luxfer Prism Co., Toronto.

Wire Springs.
Henderson, J. A., Montreal.
Wallace-Barnes Co.. Bristol, Conn.

Wire, Wire Rope, Cow Ties, Fencing Tools, etc.
American Steel and Wire Co., New York, Montreal, Chicago.
Bayliss, Jones & Bayliss, Wolverhampton, Eng.
Canadian Steel & Wire Co., Hamilton.
Dennis Wire and Iron Co., London, Ont.
Dominion Wire Mnfg. Co., Montreal
Great West Wire Fence Co., Winnipeg.
Greening, B., Wire Co., Hamilton.
Ironside, Son & Co., London, Eng.
McGregor - Banwell Fence Co., Walkerville, Ont.
Montreal Rolling Mills Co., Montreal.
Oneida Community, Niagara Falls.
Owen Sound Wire Fence Co., Owen Sound
Page Wire Fence Co., Walkerville, Ont.
Walter, E. F. & Co., Montreal.
Western Wire & Nail Co., London, Ont.
Wilcox Mfg. Co., London, Ont.

Woodenware.
Taylor-Forbes Co., Guelph, Ont.
United Factories, Toronto.
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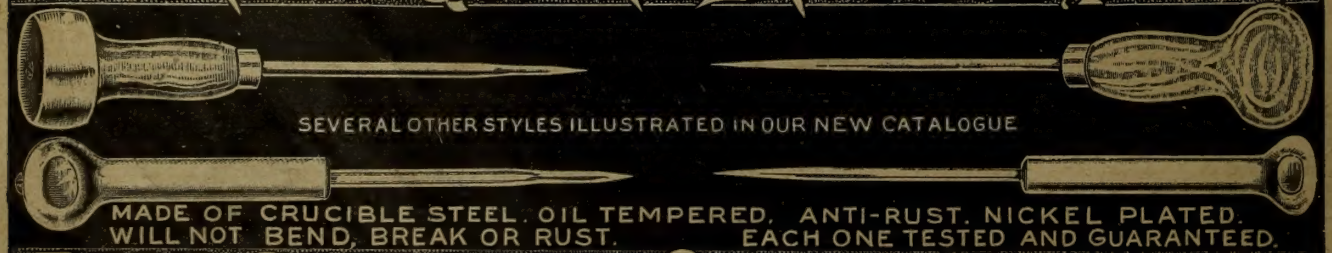
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